

**DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

Ultimate Door of Palm Beach, Inc.
2800 North 2nd Avenue
Lake Worth, FL 33461

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series Alum Clad Outswing Wood French Doors – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1748, titled series "Aluminum Clad Wood Impact Out-Swing French Doors," Sheets 1 through 17 of 17, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated AUG 02, 2012, signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**Limitations:**

1. Max. Single partial raised panel allowed is 26"W X 32"H= 832 in² or multi-mid rails with partial raised panel not to exceed 832 in² total area.
2. Except where cluster anchors are specified, the #8 nail fin perimeter fasteners must not exceed 9" O.C.
3. Min four (4) frame screws at mullion end (Sill) are required, when tributary load width is 33-1/2" or less or when mullion span is 96" or less.
4. Direct Glazed Windows (DWG Ref. # 1749) by Ultimate Door are under current separate NOA.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises & renews** NOA # 11-0310.01 and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

**MIAMI-DADE COUNTY
APPROVED**

NOA No 12-0410.11
Expiration Date: April 16, 2016
Approval Date: August 16, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's parts drawings and sections (submitted under file # **11-0310.01**)
2. Drawing No. **1748**, titled series "Aluminum Clad Wood Impact Out-Swing French Doors," Sheets 1 through 17 of 17, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated AUG 02, 2012, signed and sealed by Warren W. Schaefer, P.E.

B. TESTS (transferred from file # **11-0310.01)**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of outswing alum clad wood French doors w/ mullions, an alum clad outswing Arch double wood door and alum clad outswing Rectangular double wood doors, prepared by Architectural Testing Lab, Test Report No. **B5667.02-450-18** dated 07/02/12, signed and sealed by Vinu Abraham, P. E.

2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94

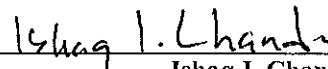
along with marked-up drawings and installation diagram of an out-swinging wood clad aluminum French door prepared by Hurricane Test Laboratory, LLC, Test Reports No.'s **HTL-0026-1008-94** and **HTL-0026-0214-97**, dated 11/14/94 and 01/09/97, **HTL-0026-1017-99**, dated 10/22/99, all signed and sealed by Timothy Marshall, P. E. and Test Laboratory, LLC, Test Report No. **HTL-0026-1212-99**, dated 12/08/99, signed and sealed by Vinu J. Abraham, P. E. (submitted under file # **11-0310.01**)

3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of an out-swinging wood clad aluminum French door, prepared by Hurricane Test Laboratory, LLC, Test Reports No.'s **HTL-0026-1023-95**, **HTL-0026-0508-95** and **HTL-0026-1212-99**, dated 1/23/95, 5/12/95 and 12/08/99, **HTL-0026-0913-96**, dated 06/26/97 and 09/23/96, **HTL-0026-0508-95** and **HTL-0026-0123-95**, dated 01/23/95 and 05/12/95, all signed and sealed by Timothy Marshall, P. E. (submitted under file # **11-0310.01**)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings of pair of outswing wood and fixed lite (OOX) & XX/O, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0026-0320-97**, dated 03/27/97, **HTL-0026-0405-97**, dated 08/27/97 and **HTL-0026-0214-97 (TAS- 201)**, dated 05/09/97, all signed and sealed by Timothy Marshall, P. E. (transferred from file # **11-0310.02**)
Note: The original tests conducted were per SFBC PA 202, 201 and 203-94, now termed as FBC, TAS 202, 201 and 203-94.



Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 12-0410.11

Expiration Date: April 16, 2016

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C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated AUG 02, 2012, signed and sealed by Warren W. Schaefer, P. E.
2. Glazing complies w/ ASTM E-1300-02 & -04.

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

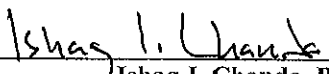
1. Notice of Acceptance No. **11-0624.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass ® Interlayer**", expiring on 01/14/17.

F. STATEMENTS

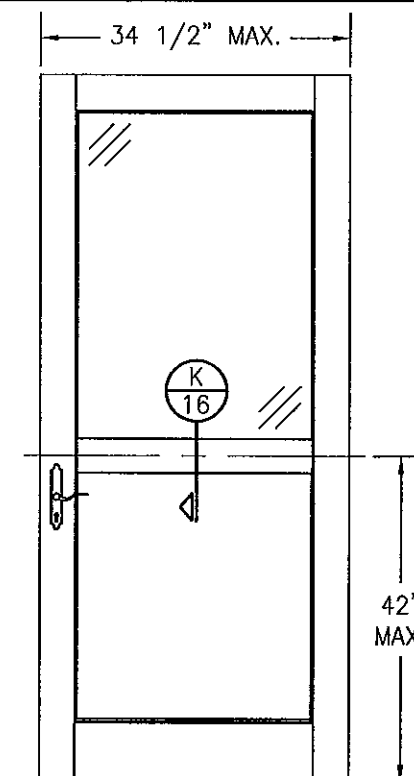
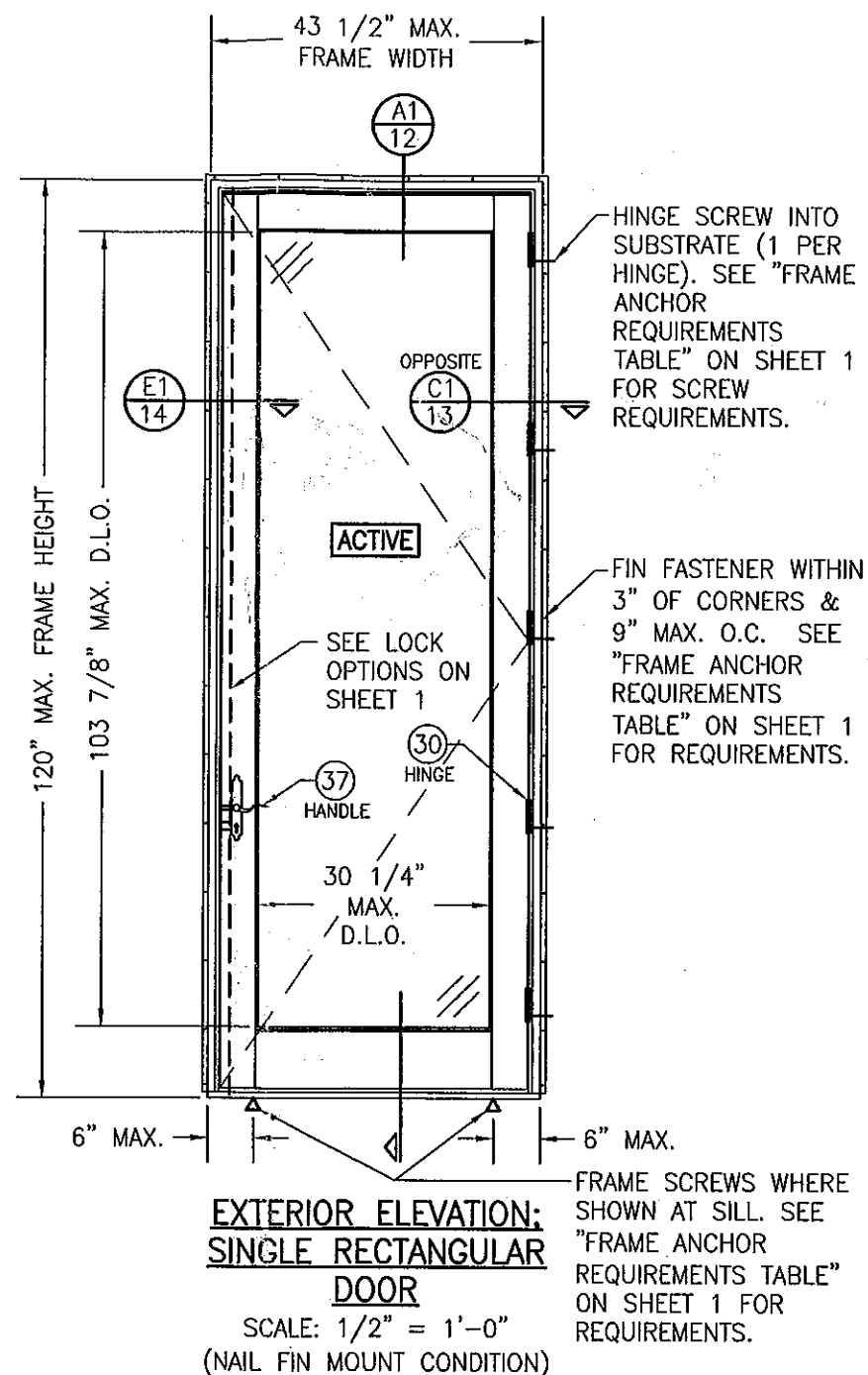
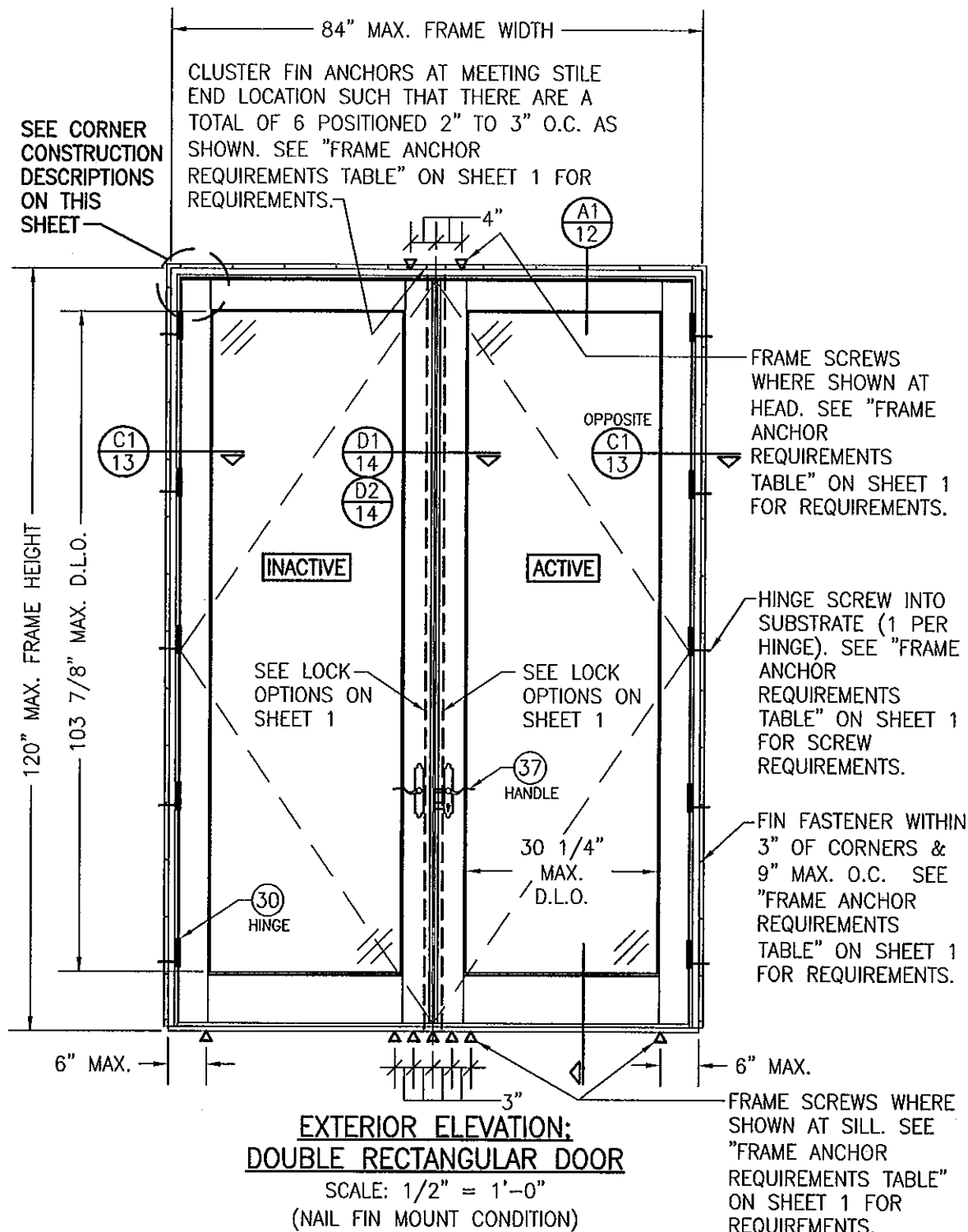
1. Statement letter of conformance to FBC and letter of no financial interest, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated Jul 09, 2012, signed and sealed by Warren W. Schaefer, P.E.
2. Lab compliance as part of the above referenced test reports.

G. OTHER

1. This NOA **revises & renews** NOA # **08-0418.02**, expired on April 16, 2012.
2. Series Un-clipped wood mullion NOA # 11-0310.02.
3. Test proposal, dated 03-10-11 and e-mail correspondence approval dated 08-02-12 approved by PERA.
4. Previous associated files are NOA(s) # 05-0824.03, 01-0327.01, 00-0912.03, 99-0317.06 and 97-0912.01



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 12-0410.11
Expiration Date: April 16, 2016
Approval Date: August 16, 2012



- PANEL NOTES:**
1. SINGLE RAISED PANEL CONDITION SHOWN, MORE THAN ONE RAISED PANEL MAY EXIST IN A SINGLE DOOR PANEL WHEN MULTIPLE MID-RAILS ARE USED.
 2. PANEL ONLY IS SHOWN. FOR INSTALLATION INTO FRAME, SEE OTHER ELEVATIONS.
 3. THESE PANEL CONDITIONS APPLY WITH BOTH OPERABLE & FIXED PANEL DOORS
 4. RECTANGULAR CONDITION SHOWN, SHAPED CONDITIONS ALSO APPLY.

CORNER CONSTRUCTION:

JAMB TO HEAD JAMB WOOD FRAME: MEMBERS ARE COPED, BUTTED AND JOINED WITH (1)ONE NO. 10 X 3 1/2" GALVANIZED WOOD SCREW THROUGH THE HORIZONTAL FRAME MEMBER INTO THE VERTICAL MEMBERS & (2)TWO NO. 8 X 2 1/2" GALVANIZED WOOD SCREWS THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBER. CORNERS ARE SEALED WITH DOW 795.

JAMB TO SILL WOOD FRAME: MEMBERS ARE COPED, BUTTED AND JOINED WITH (2)TWO NO. 8 X 2 1/2" GALVANIZED WOOD SCREW THROUGH THE HORIZONTAL FRAME MEMBER INTO THE VERTICAL MEMBERS & (2)TWO NO. 10 X 3 1/2" GALVANIZED WOOD SCREWS THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBERS. CORNERS ARE SEALED WITH DOW 795.

TOP RAIL & MID-RAIL TO STILE: MEMBERS ARE COPED, BUTTED AND JOINED WITH A (1)ONE 3/4" X 2" TENON DOWEL. CORNERS ARE GLUED & SEALED WITH MULTIBOND 2000 WOOD GLUED.

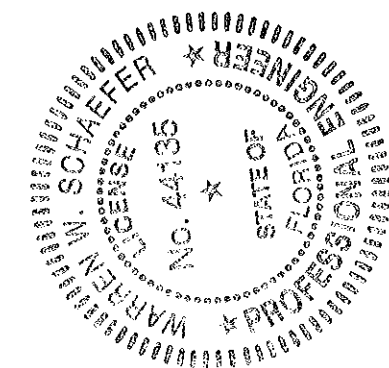
BOTTOM RAIL TO STILE: MEMBERS ARE COPED, BUTTED AND JOINED WITH A (2)TWO 3/4" X 2" TENON DOWEL. CORNERS ARE GLUED & SEALED WITH MULTIBOND 2000 WOOD GLUED.

FRAME CLAD: MEMBERS ARE MITERED AND JOINED WITH (2)TWO NO. 6 X 2" SMS SCREWS INTO THE SCREW SPLINE. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

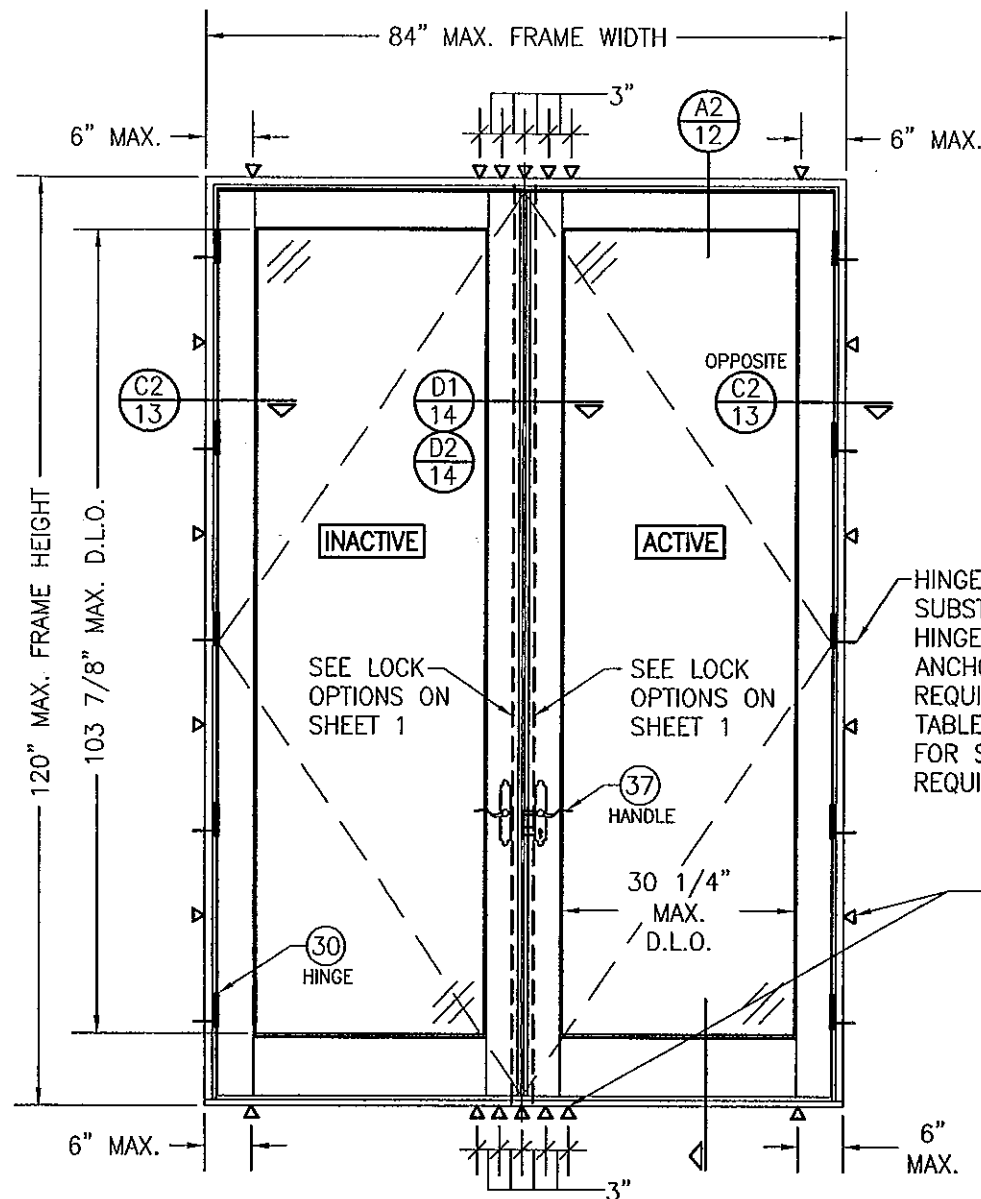
PANEL CLAD: MEMBERS ARE COPED, BUTTED & SECURED TO THE SASH. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

SEE ALLOWABLE DESIGN PRESSURE TABLES ON SHEET 1 FOR ALLOWABLE DESIGN PRESSURES ON SINGLE & DOUBLE DOORS.

PRODUCT REVIEWED
in compliance with the Florida
Building Code
Acceptance No. 12-0410.11
Expiration Date 4/16/16
by [Signature]
Miami Dade Product Council



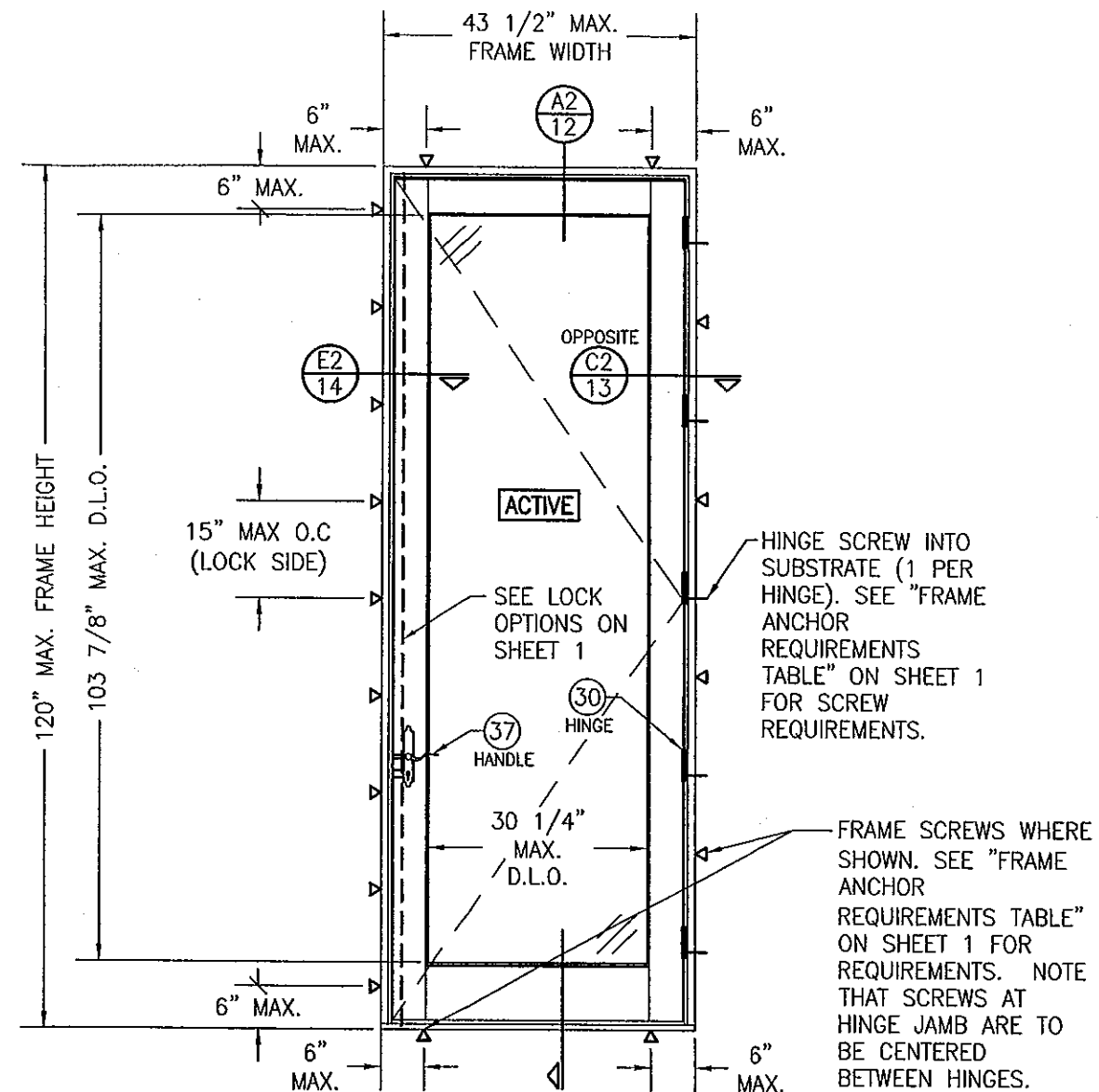
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PLOT: 1-24	DATE: 07/09/12
DATE	BY
REVISION DESCRIPTION	NO.
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CERTIFICATION	AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44130
DRAWING NO. 1748	REV.
SHEET NO. 2 OF 17	



**EXTERIOR ELEVATION:
DOUBLE RECTANGULAR DOOR**

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)

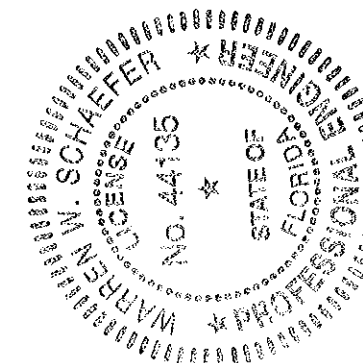
SEE ALLOWABLE DESIGN PRESSURE
TABLES ON SHEET 1 FOR
ALLOWABLE DESIGN PRESSURES ON
SINGLE & DOUBLE DOORS.

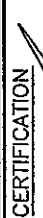


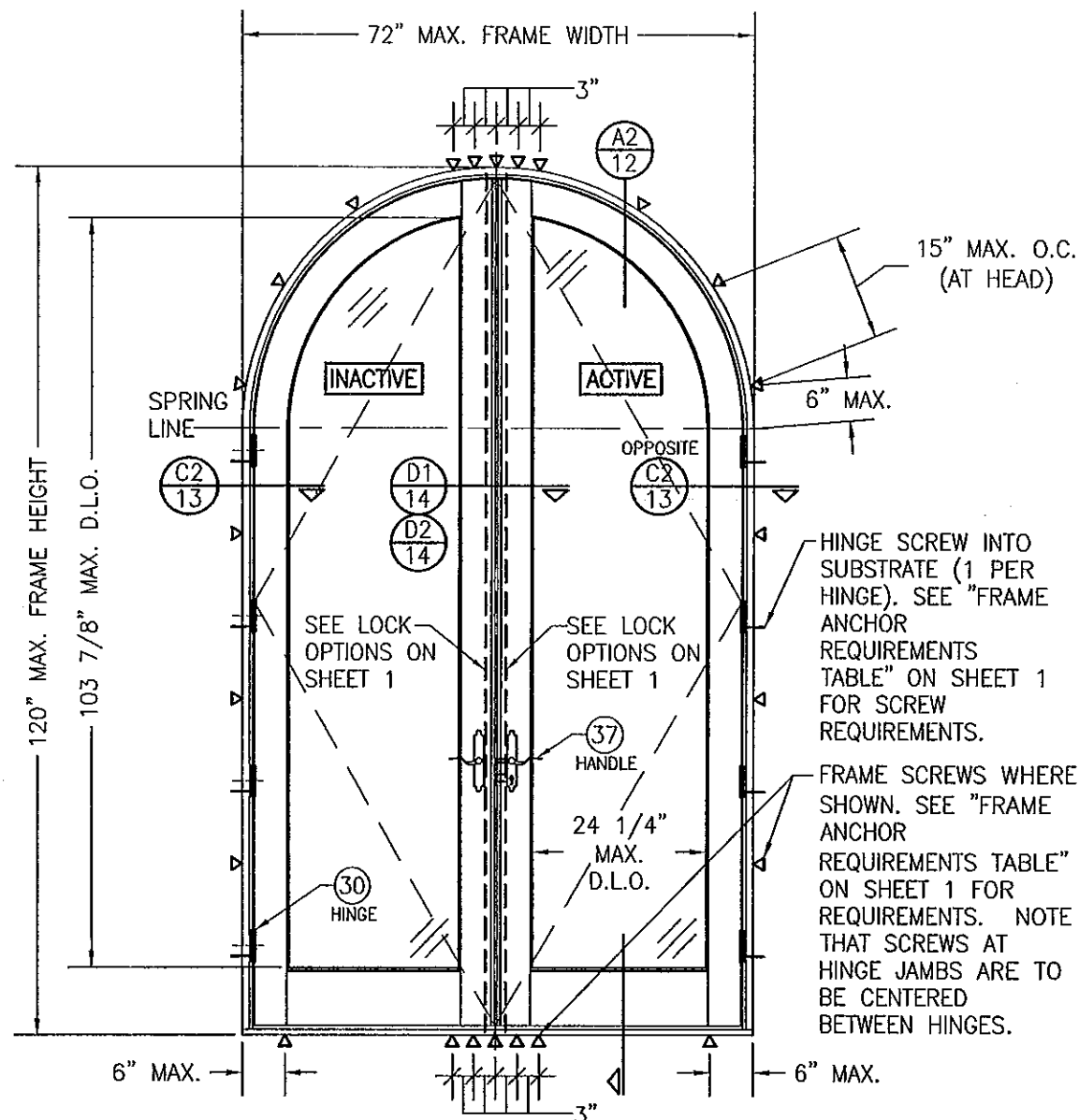
**EXTERIOR ELEVATION:
SINGLE RECTANGULAR
DOOR**

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)

PRODUCT REVISED
in compliance with the Florida
Building Code
Acceptance No. 12-0410.11
Expiration Date 4/16/16
By: Ismael I. Chavira
Ultimate Door Product Control



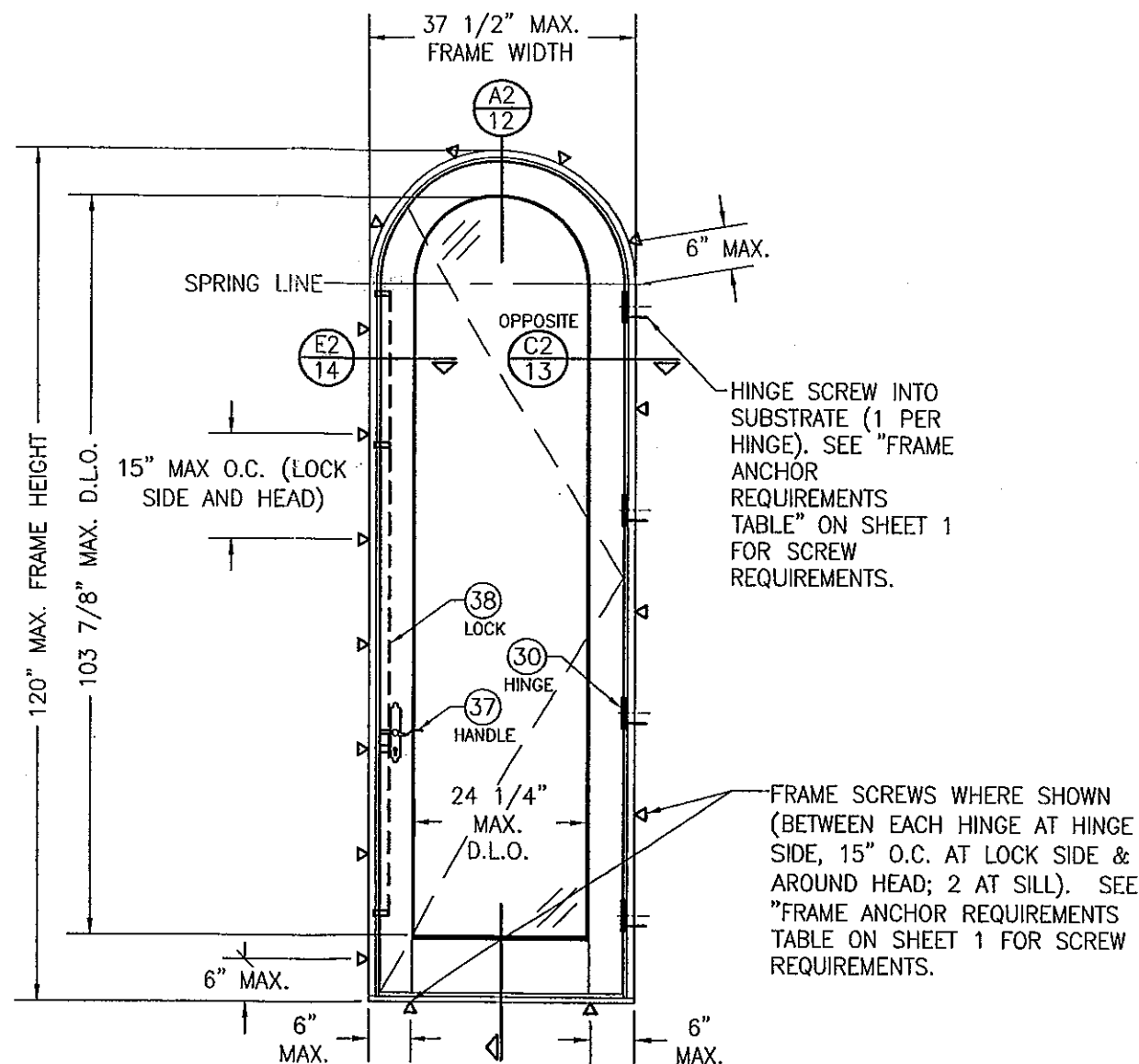
DRAWING NO. 1748	REV.	DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	DRAWN BY: W.R.M.	CHECKED BY: W.W.S.				
					PLOT: 1=24	DATE: 07/09/12				
SHEET NO. 3 OF 17		CERTIFICATION  AUG 02 2012 WARREN W. SCHAEFER, P.E. P/E NO. 44135				NO.		REVISION DESCRIPTION	BY	DATE



**EXTERIOR ELEVATION:
DOUBLE HALF-ROUND TOP DOOR**

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION SHOWN. FOR NAIL FIN MOUNT, SEE RECTANGULAR DOOR NAIL FIN MOUNT ELEVATION)

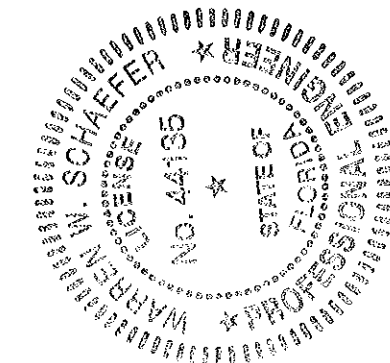
SEE ALLOWABLE DESIGN PRESSURE TABLES ON SHEET 1 FOR ALLOWABLE DESIGN PRESSURES ON SINGLE & DOUBLE DOORS.



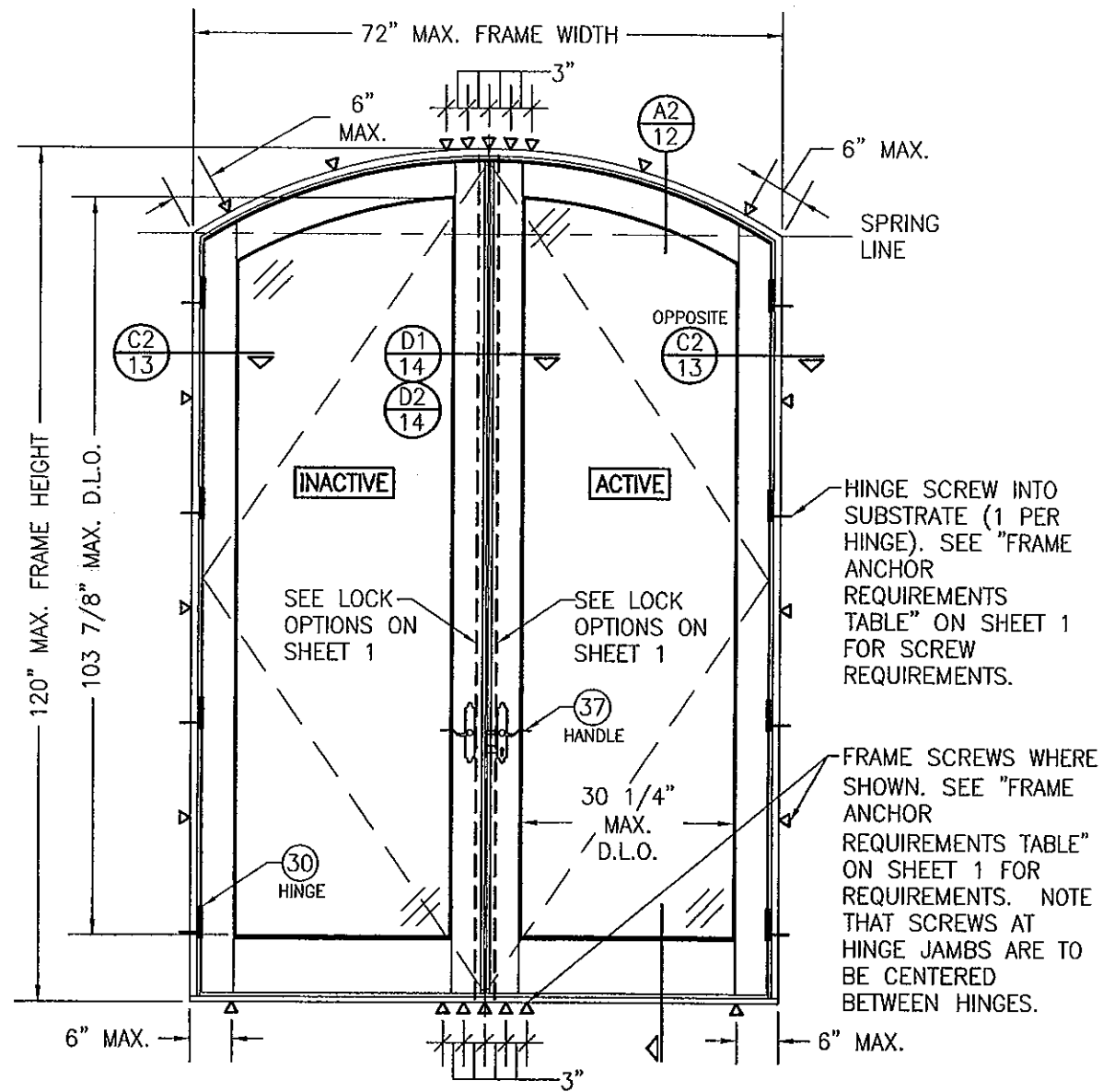
**EXTERIOR ELEVATION:
SINGLE HALF-ROUND TOP DOOR**

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION SHOWN. FOR NAIL FIN MOUNT, SEE RECTANGULAR DOOR NAIL FIN MOUNT ELEVATION)

PRODUCT REVISED
in compliance with the Florida Building Code
Acceptance No. 12-0410.11
Expiration Date 4/16/16
By: [Signature]
Manual Code Product Control



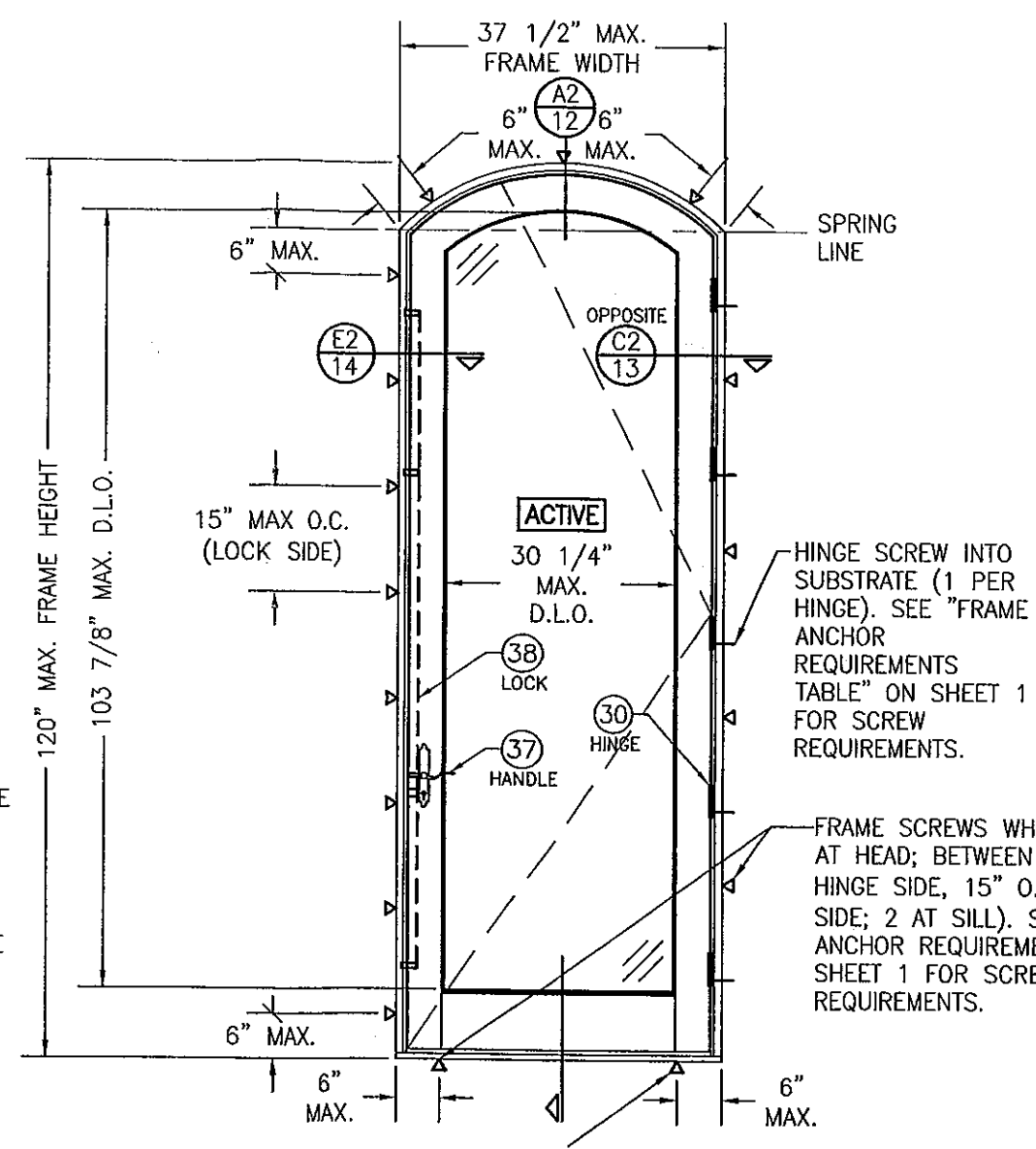
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 07/09/12
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE	ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
MANUFACTURER	ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828
CERTIFICATION	AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	1748
SHEET NO.	4 OF 17



**EXTERIOR ELEVATION:
DOUBLE EYE-BROW TOP DOOR**

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION SHOWN. FOR NAIL
FIN MOUNT, SEE RECTANGULAR DOOR NAIL FIN MOUNT
ELEVATION)

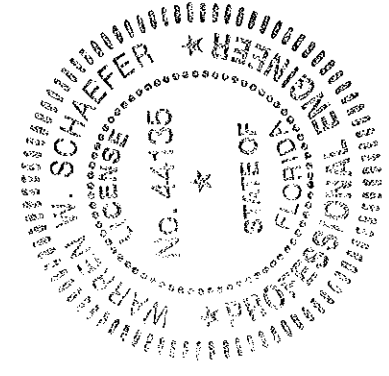
SEE ALLOWABLE DESIGN PRESSURE
TABLES ON SHEET 1 FOR
ALLOWABLE DESIGN PRESSURES ON
SINGLE & DOUBLE DOORS.



**EXTERIOR ELEVATION:
SINGLE EYE-BROW TOP
DOOR**

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION
SHOWN. FOR NAIL FIN MOUNT,
SEE RECTANGULAR DOOR NAIL FIN
MOUNT ELEVATION)

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 12-0410-11
Expiration Date 4/16/16
By: [Signature]
Miami Date Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/09/12	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1748		REV.	
SHEET NO. 5		OF 17	

MULLION ALLOWABLE
DESIGN PRESSURE
(SIDE BY SIDE DOORS)

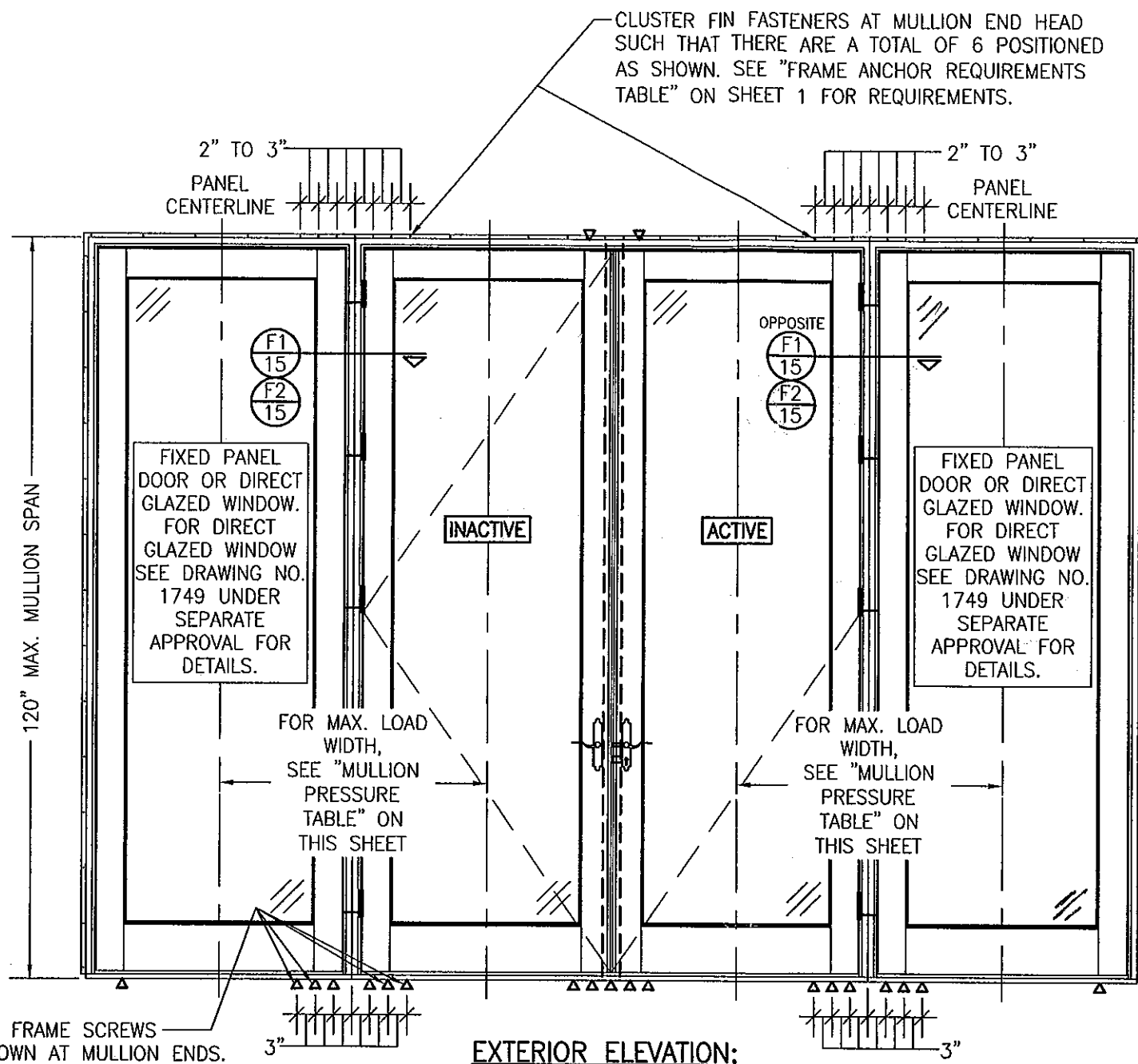
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
		POS.	NEG.
120	51	41.2	41.2
	45	46.7	46.7
	42	50.0	50.0
	39	53.8	53.8
	36	58.3	58.3
	33	63.6	63.6
	31	65.0	65.0
108	54	43.2	43.2
	51	45.8	45.8
	45	51.9	51.9
	42	55.6	55.6
	39	59.8	59.8
102	36	64.8	64.8
	35	65.0	65.0
	56	44.1	44.1
	51	48.4	48.4
	45	54.9	54.9
96	42	58.8	58.8
	39	63.3	63.3
	38	65.0	65.0
	57	46.1	46.1
	51	51.5	51.5
90	45	58.3	58.3
	42	62.5	62.5
	40	65.0	65.0
	57	49.1	49.1
	51	54.9	54.9
84	48	58.3	58.3
	45	62.2	62.2
	43	65.0	65.0
	57	52.6	52.6
80	51	58.8	58.8
	49	61.2	61.2
	46	65.0	65.0
	57	55.3	55.3
	54	58.3	58.3

NOTES:
1. SEE ELEVATIONS FOR
DIMENSIONING OF LOAD WIDTH.
2. ALLOWABLE UNIT PRESSURE
SHALL BE THE LESSER OF THE
PRESSURE SHOWN IN THIS TABLE
& THAT SPECIFIED FOR THE
INDIVIDUAL DOOR.

ADDITIONAL FRAME SCREWS
WHERE SHOWN AT MULLION ENDS.
SEE "FRAME ANCHOR
REQUIREMENTS TABLE" ON SHEET
1 FOR REQUIREMENTS.
NOTE: OUTER-MOST SCREW ON
EACH SIDE OF THE MULLION IS
NOT REQUIRED AT THE SILL WHEN
LOAD WIDTH IS 33 1/2" OR LESS
OR WHEN FRAME HEIGHT IS 96"
OR LESS

MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
3. OXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.
4. INDIVIDUAL DOOR SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATION.

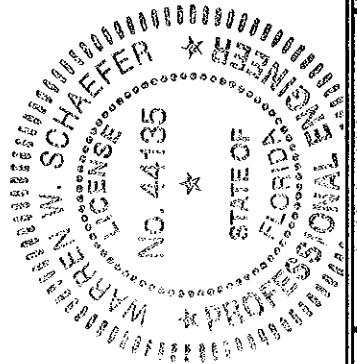


EXTERIOR ELEVATION:
DOUBLE DOORS WITH SIDE LIGHTS

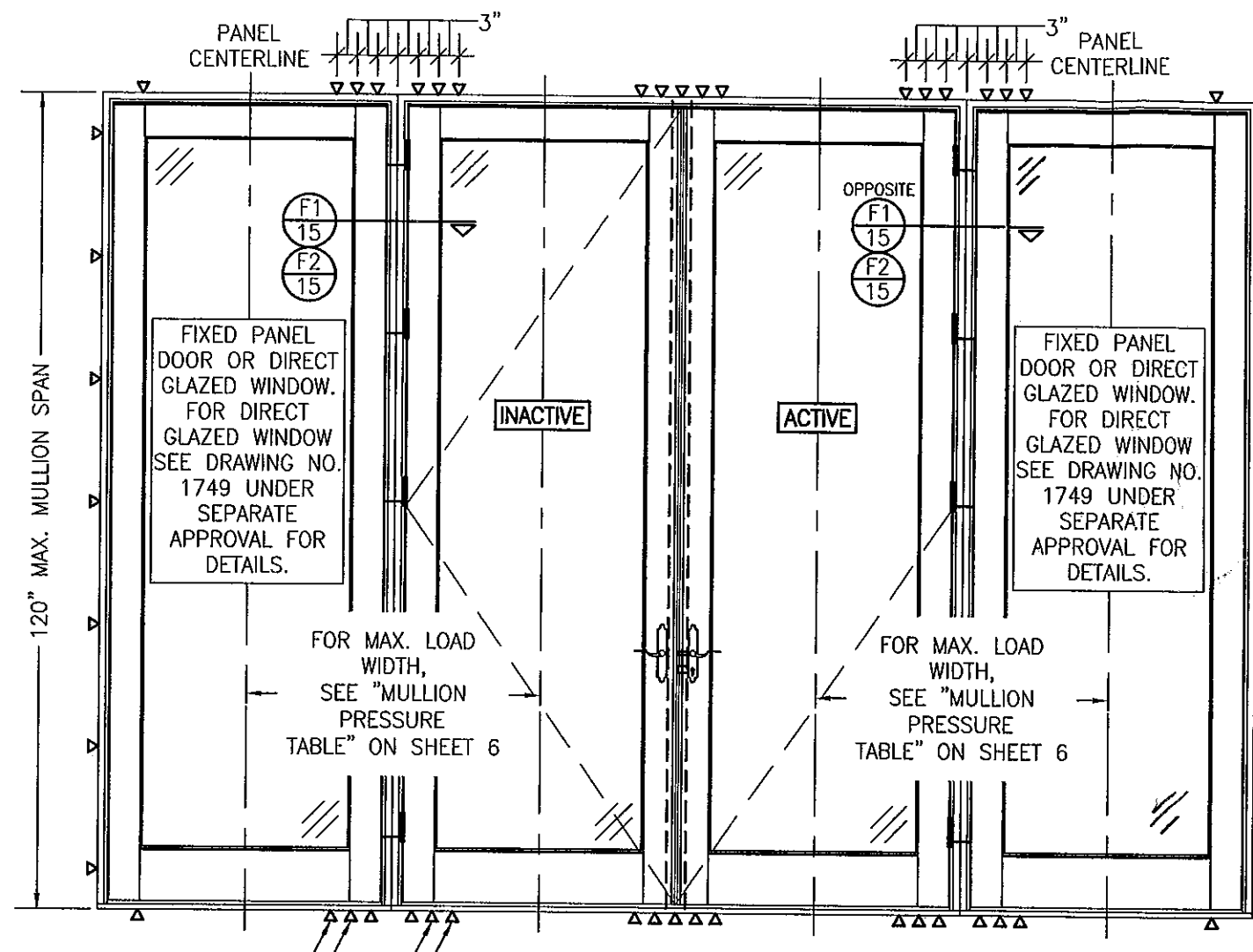
SCALE: 1/2" = 1'-0"
(NAIL FIN MOUNT CONDITION)
(RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE
"APPROVED SHAPES" TABLE ON SHEET 1)

SEE SINGLE UNIT
ELEVATIONS FOR
FIN FASTENER
REQUIREMENTS &
POSITIONS
AROUND EACH
UNIT

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 12-0410-1
Expiration Date 4/16/16
By *Shing L. Chan*
Miami Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 07/09/12
DATE	BY
REVISION DESCRIPTION	
NO.	
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR	
MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
CERTIFICATION WARREN W. SCHAEFER P.E. NO. 44135 AUG 02 2012	DRAWING NO. 1748 SHEET NO. 6 OF 17



SEE SINGLE UNIT ELEVATIONS FOR FRAME ANCHOR REQUIREMENTS & POSITIONS AROUND EACH UNIT

ADDITIONAL FRAME SCREWS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS (TYP. HEAD & SILL).
NOTE: OUTER-MOST SCREW ON EACH SIDE OF THE MULLION IS NOT REQUIRED WHEN LOAD WIDTH IS 33 1/2" OR LESS OR WHEN FRAME HEIGHT IS 96" OR LESS

**EXTERIOR ELEVATION:
DOUBLE DOORS WITH SIDE LIGHTS**

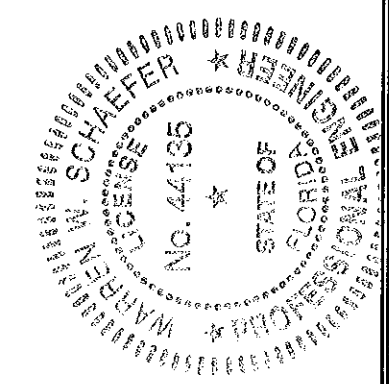
SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)
(RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON SHEET 1)

SEE "MULLION ALLOWABLE DESIGN PRESSURE" TABLE ON SHEET 6 FOR ALLOWABLE DESIGN PRESSURES ON MULLED UNIT

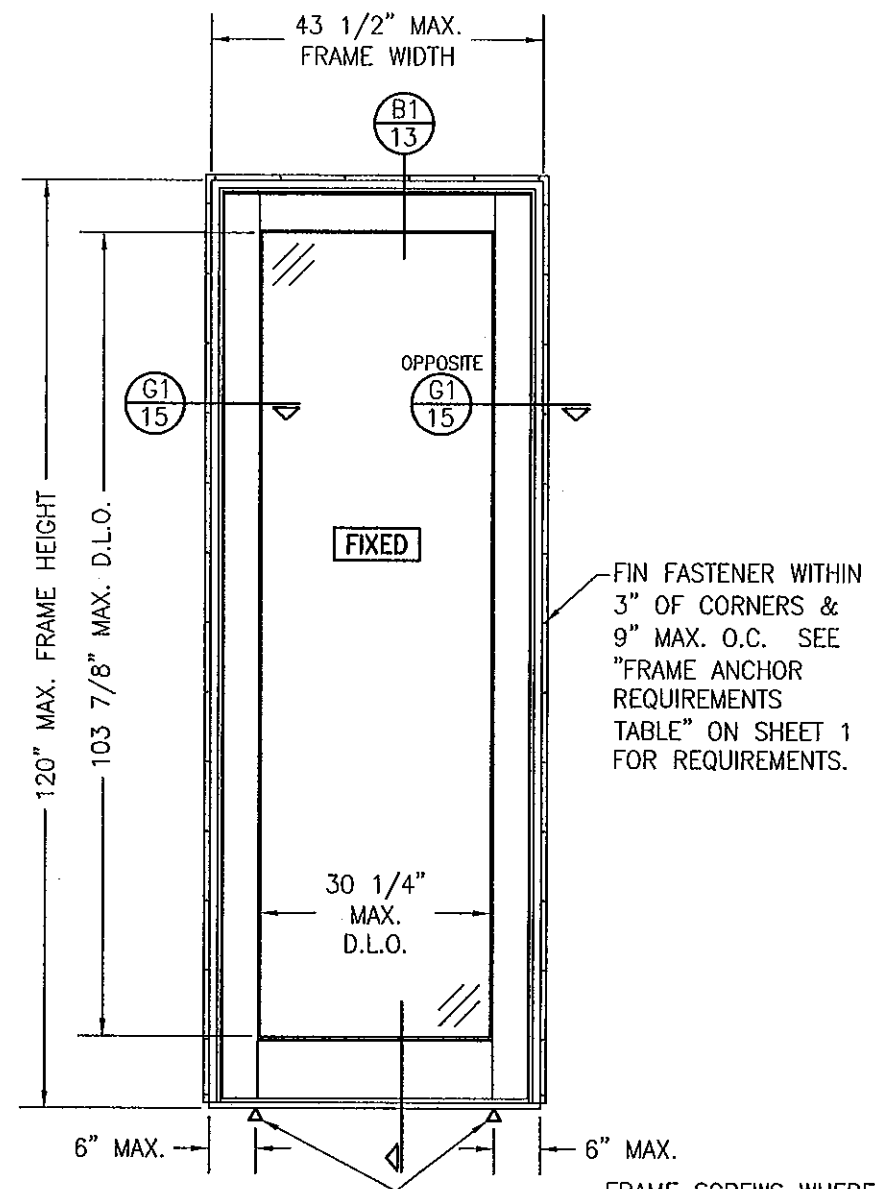
MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
3. OXXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.
4. INDIVIDUAL DOOR SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATION.

PRODUCT REVIEWED
in compliance with the Florida Building Code
Acceptance No. 12-0410-11
Expiration Date 4/16/17
By: [Signature]
Must Be: Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 07/09/12	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CERTIFICATION AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1748	
SHEET NO. 7		OF 17	

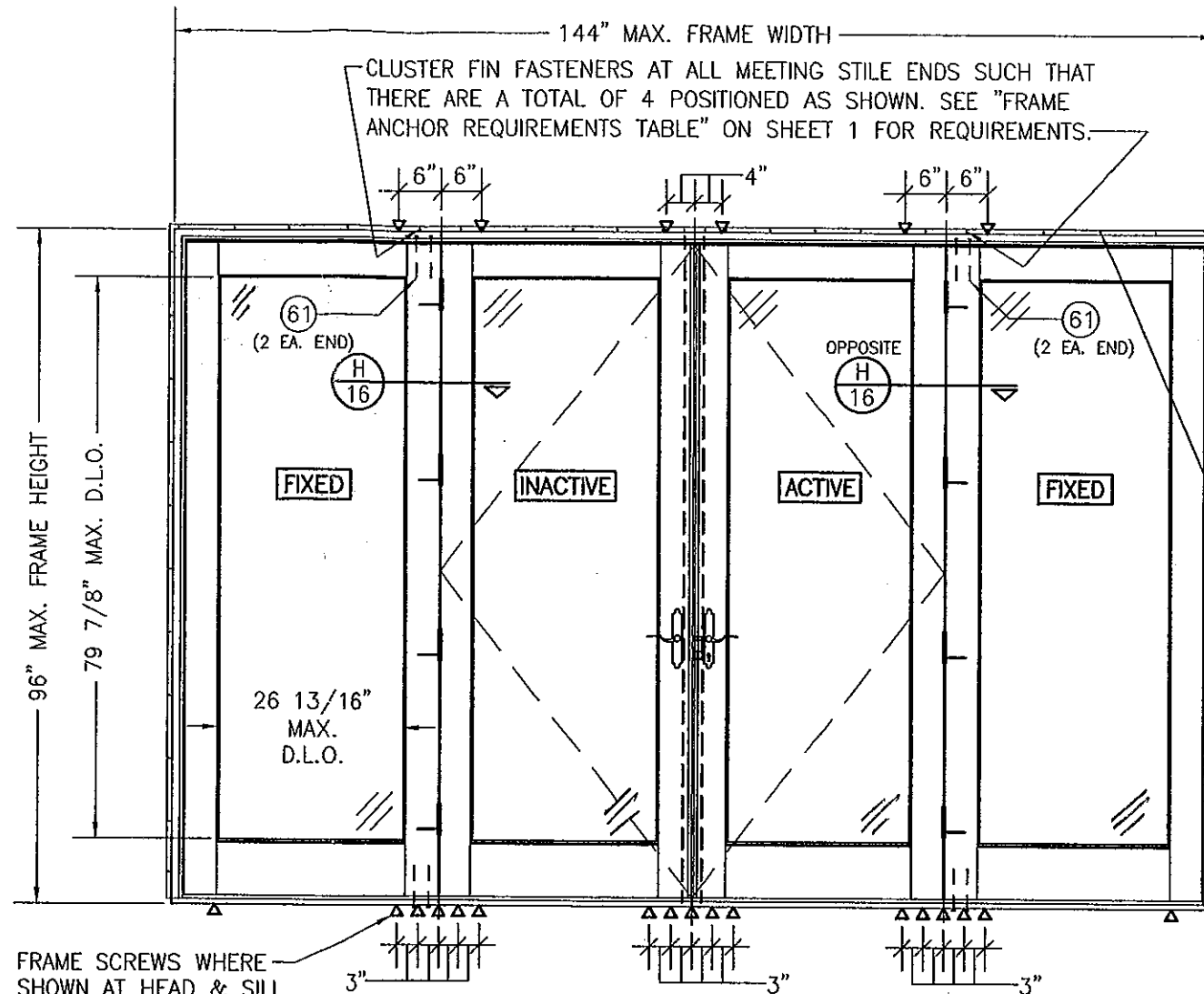


**EXTERIOR ELEVATION:
SINGLE FIXED PANEL DOOR**

SCALE: 1/2" = 1'-0"
(NAIL FIN MOUNT CONDITION)

RECTANGULAR FIXED PANEL SHOWN. SHAPE TOP CONDITION ALSO APPLIES WITH ANCHORING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.

SEE ALLOWABLE DESIGN PRESSURE TABLES ON SHEET 1 FOR ALLOWABLE DESIGN PRESSURES ON FIXED PANEL DOORS.



**EXTERIOR ELEVATION:
QUAD PANEL DOOR WITH FIXED ASTRAGALS
IN ONE FRAME**

SCALE: 1/2" = 1'-0"
(NAIL FIN MOUNT CONDITION)

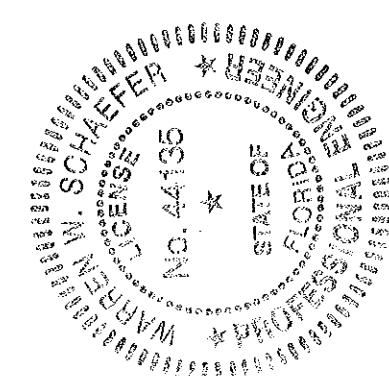
**ALLOWABLE DESIGN PRESSURE
(DOORS WITH FIXED ASTRAGALS)**

+48/-59 PSF

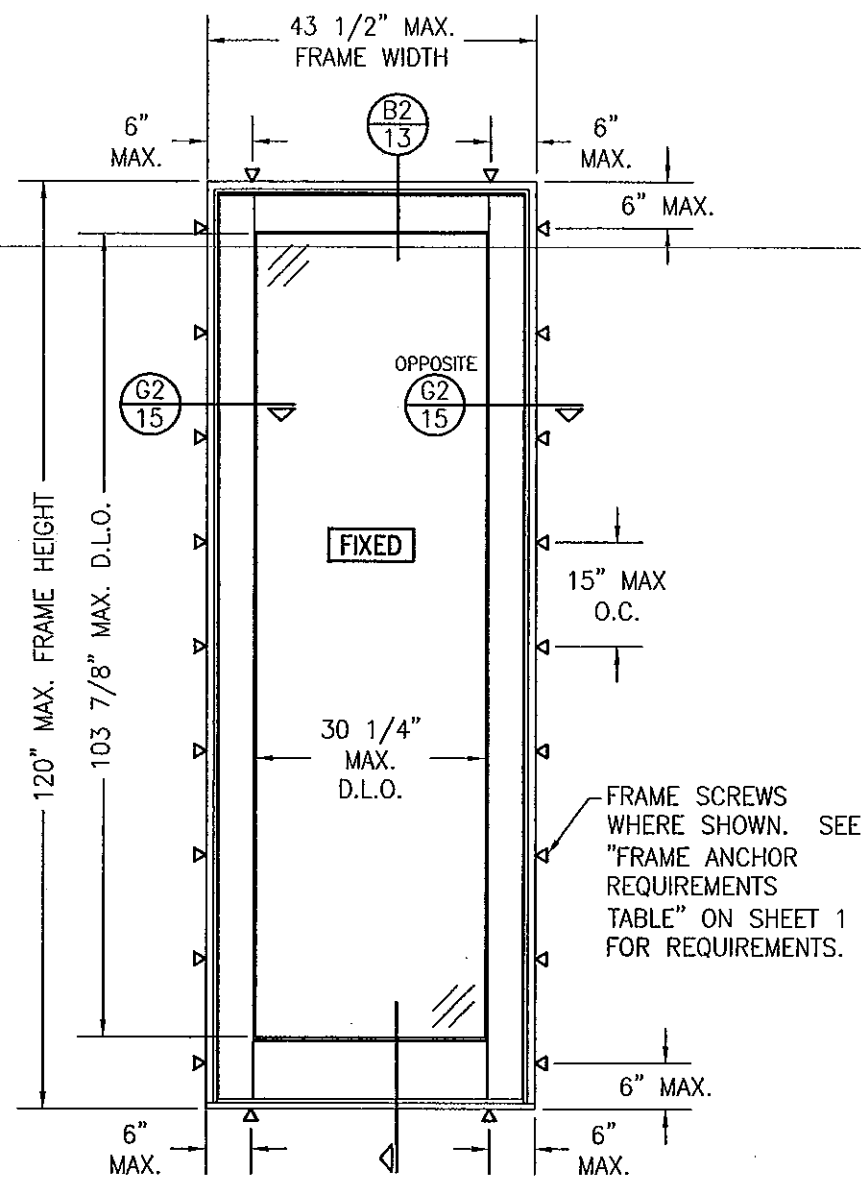
FIXED ASTRIGAL UNIT NOTES:

1. OXXO UNIT IS SHOWN. OX, XO, OXO, XXO & OXX UNITS ALSO APPLY.
2. FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.

PRODUCT REVISED
in compliance with the Florida
Building Code
Acceptance No. 12-0410-11
Expiration Date 4/16/16
By: [Signature]
Miami Dade Product Control



DRAWING BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/09/12	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CERTIFICATION [Signature] AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1748	
SHEET NO. 8		REV. 17	

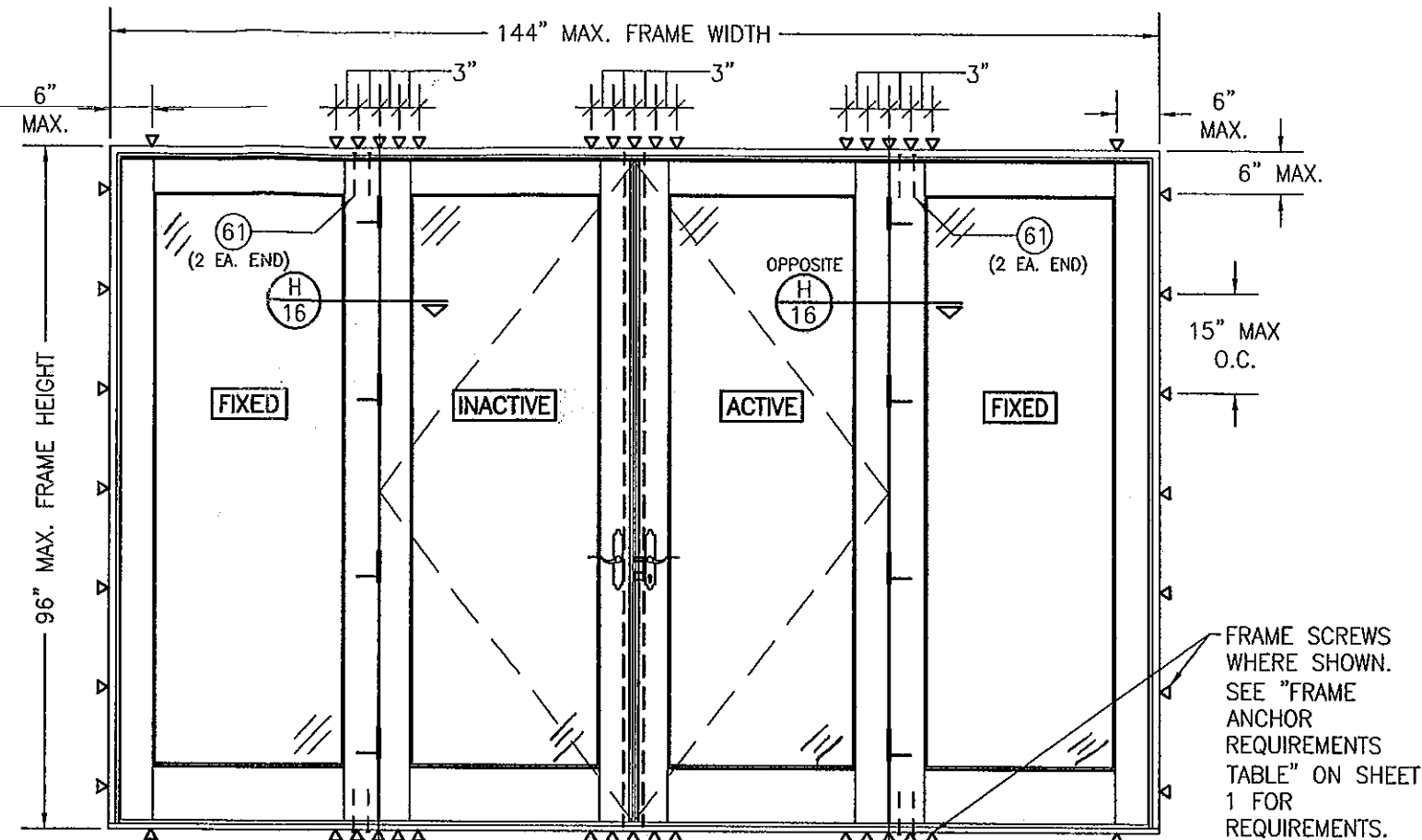


EXTERIOR ELEVATION: SINGLE FIXED PANEL DOOR

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)

RECTANGULAR FIXED PANEL SHOWN. SHAPE TOP CONDITION ALSO APPLIES WITH ANCHORING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.

SEE ALLOWABLE DESIGN PRESSURE TABLES ON SHEET 1 FOR ALLOWABLE DESIGN PRESSURES ON FIXED PANEL DOORS.



EXTERIOR ELEVATION: QUAD PANEL DOOR WITH FIXED ASTRAGALS IN ONE FRAME

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)

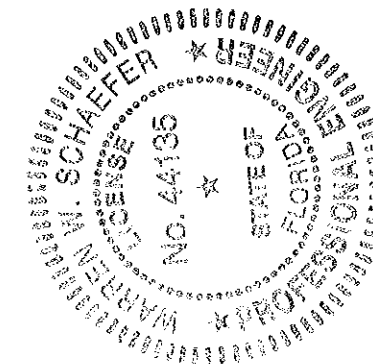
ALLOWABLE DESIGN PRESSURE
(DOORS WITH FIXED ASTRAGALS)

+48/-59 PSF

FIXED ASTRIGAL UNIT NOTES:

1. OXXO UNIT IS SHOWN. OX, XO, OXO, XXO & OXX UNITS ALSO APPLY.
2. FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.

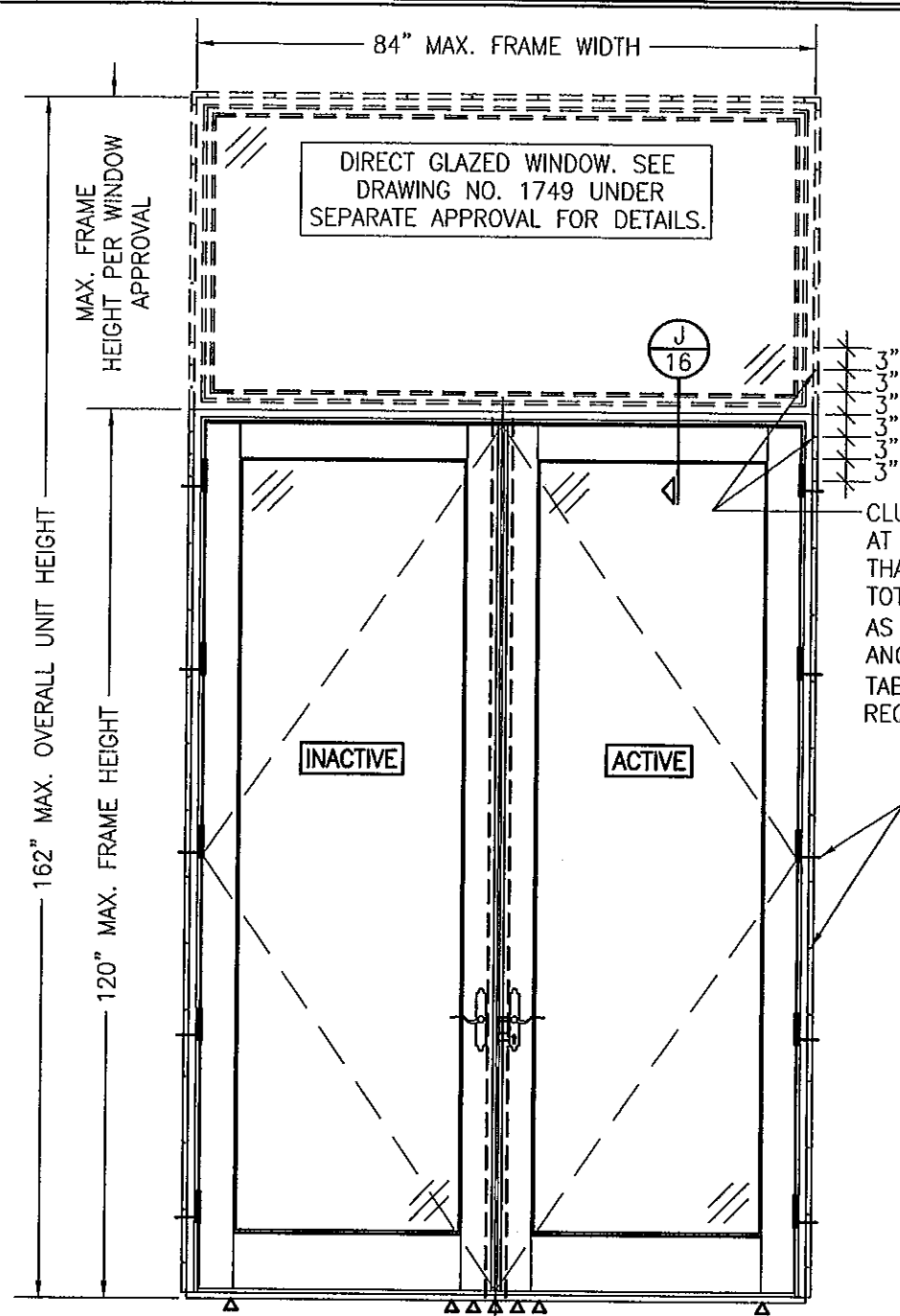
PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 12-0410-11
Expiration Date 4/16/16
By: [Signature]
Miami Dade Product Control



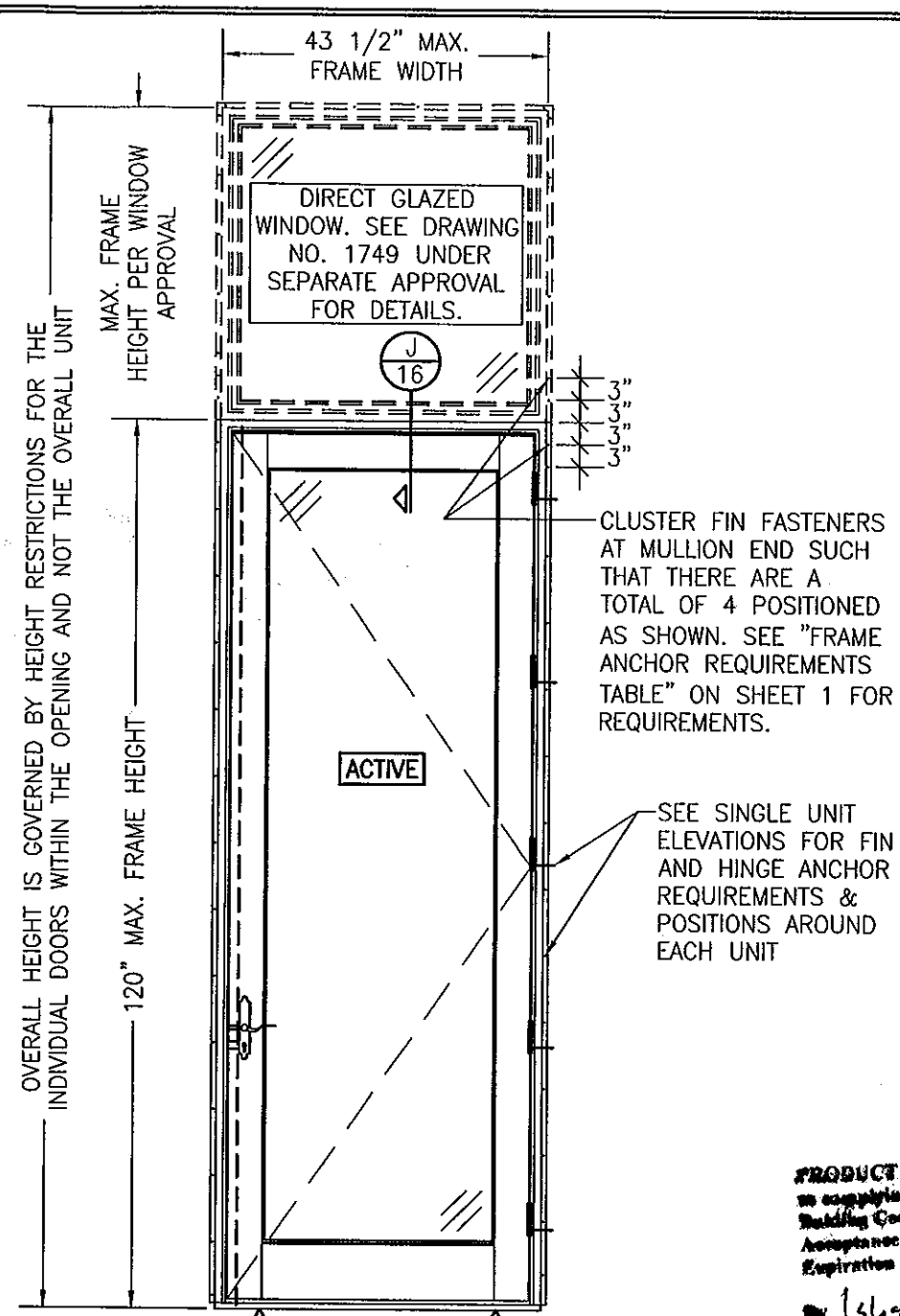
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 07/09/12
DATE	BY
REVISION DESCRIPTION	NO.
ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR	
MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1748	REV.
SHEET NO. 9 OF 17	

MULLION ALLOWABLE DESIGN PRESSURE (DOUBLE DOORS WITH TRANSOM)			
MAXIMUM FRAME WIDTH (IN.)	MAXIMUM OVERALL HEIGHT (IN.)	ALLOWABLE PRESSURE (PSF)	
		POS.	NEG.
84	162	50.0	50.0
	150	54.0	54.0
	144	56.3	56.3
	138	58.7	58.7
	132	61.4	61.4
	126	64.3	64.3
	124	65.0	65.0
78	162	53.8	53.8
	150	58.2	58.2
	144	60.6	60.6
	138	63.2	63.2
	134	65.0	65.0
75	162	56.0	56.0
	156	58.2	58.2
	150	60.5	60.5
	144	63.0	63.0
	139	65.0	65.0
72	162	58.3	58.3
	156	60.6	60.6
	150	63.0	63.0
	145	65.0	65.0
66	162	63.6	63.6
	158	65.0	65.0
60	162	65.0	65.0

NOTES:
1. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT SPECIFIED FOR THE INDIVIDUAL WINDOW OR DOOR.



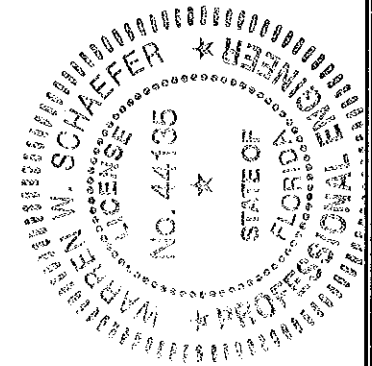
EXTERIOR ELEVATION:
DOUBLE DOORS WITH TRANSOM
SCALE: 1/2" = 1'-0"
(NAIL FIN MOUNT CONDITION)
(FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS)



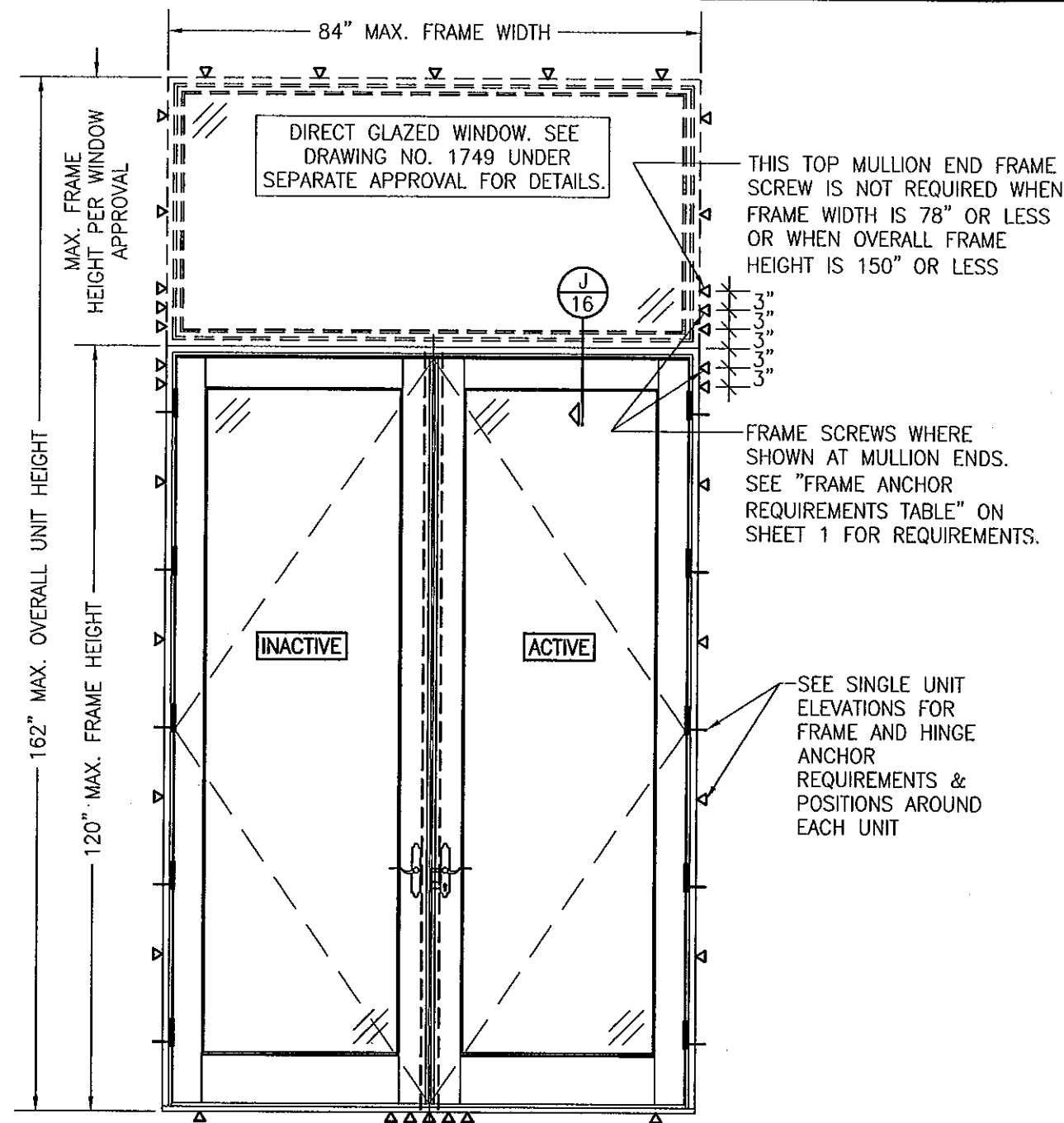
EXTERIOR ELEVATION:
SINGLE DOOR WITH TRANSOM
SCALE: 1/2" = 1'-0"
(NAIL FIN MOUNT CONDITION)
(FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS)

MULLION ALLOWABLE DESIGN PRESSURE (SINGLE DOORS WITH TRANSOM)	
ALLOWABLE PRESSURE SHALL BE GOVERNED BY THE ALLOWABLE PRESSURE ON THE SINGLE DOOR. SEE SHEET 1 FOR ALLOWABLE PRESSURE ON SINGLE DOORS.	

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Building Code
Acceptance No. 12-0410-11
Expiration Date 4/16/16
By: [Signature]
Must Date Product Control



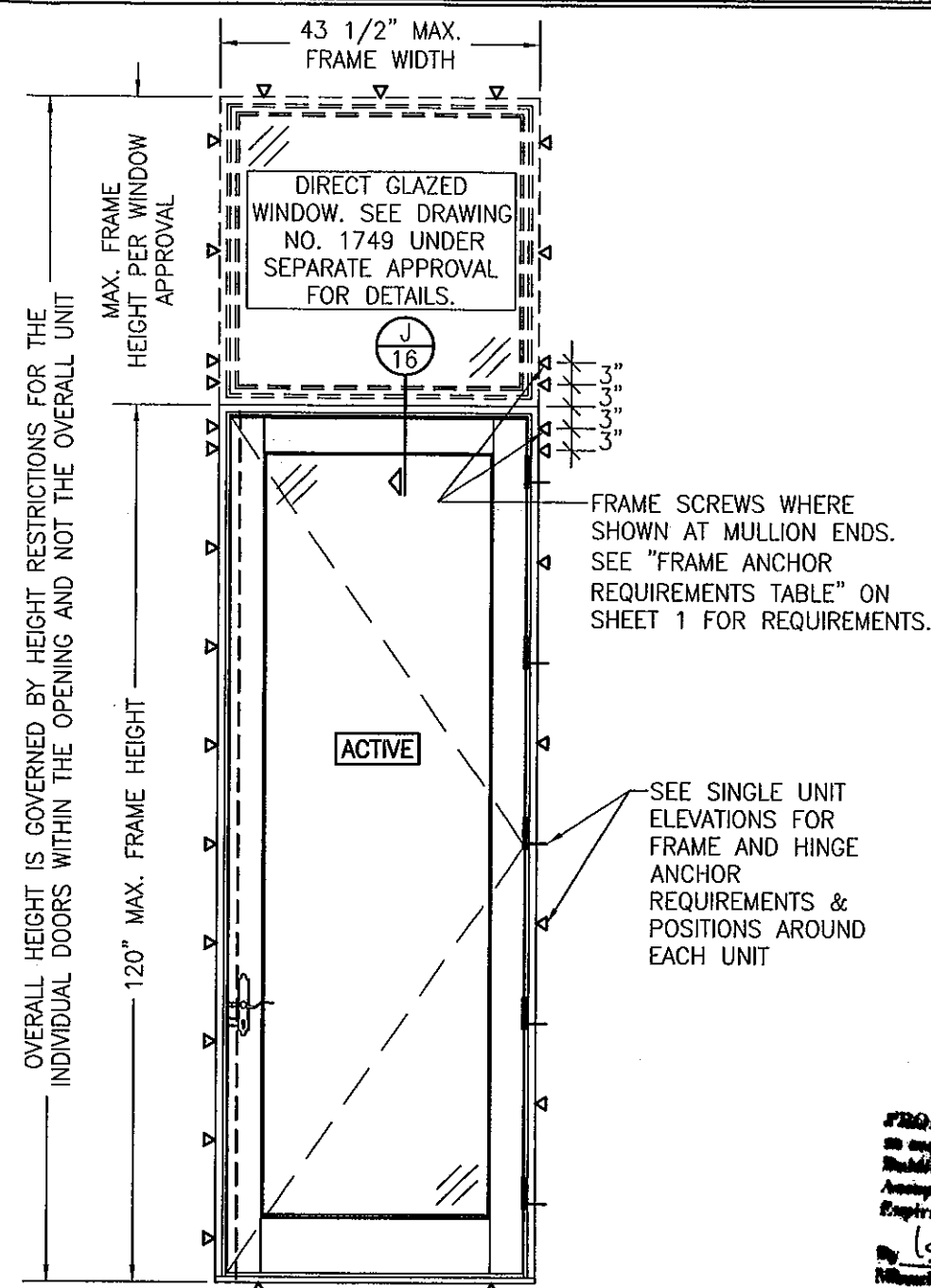
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 07/09/12	
NO.	REVISION	DESCRIPTION	BY
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		P.E. NO. 44135	
CERTIFICATION: [Signature]		AUG 02 2012	
DRAWING NO. 1748		REV.	
SHEET NO. 10		OF 17	



**EXTERIOR ELEVATION:
DOUBLE DOORS WITH TRANSOM**

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)
(FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS)

SEE "MULLION ALLOWABLE DESIGN
PRESSURE" TABLE ON SHEET 10
FOR ALLOWABLE DESIGN
PRESSURES ON TRANSOM UNIT



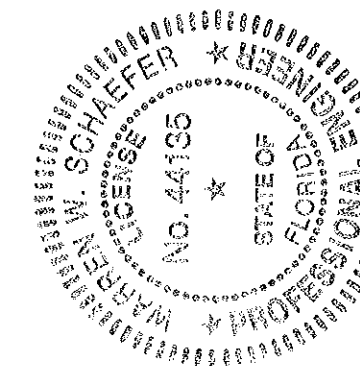
**EXTERIOR ELEVATION:
SINGLE DOOR WITH TRANSOM**

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)
(FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS)

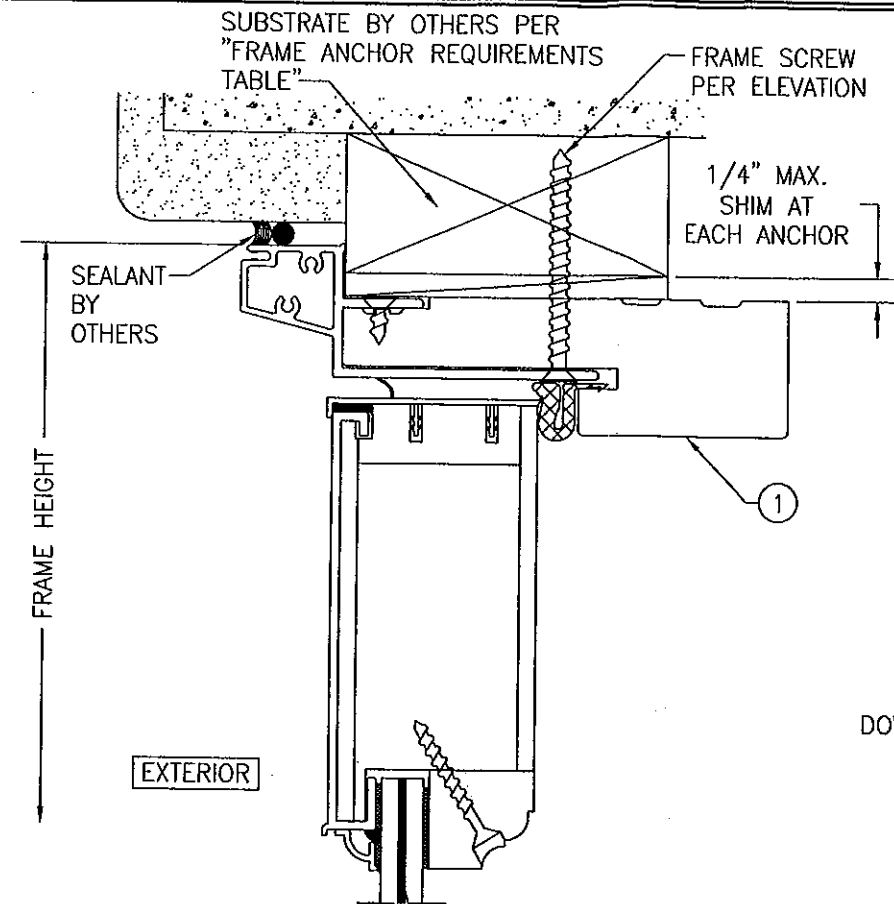
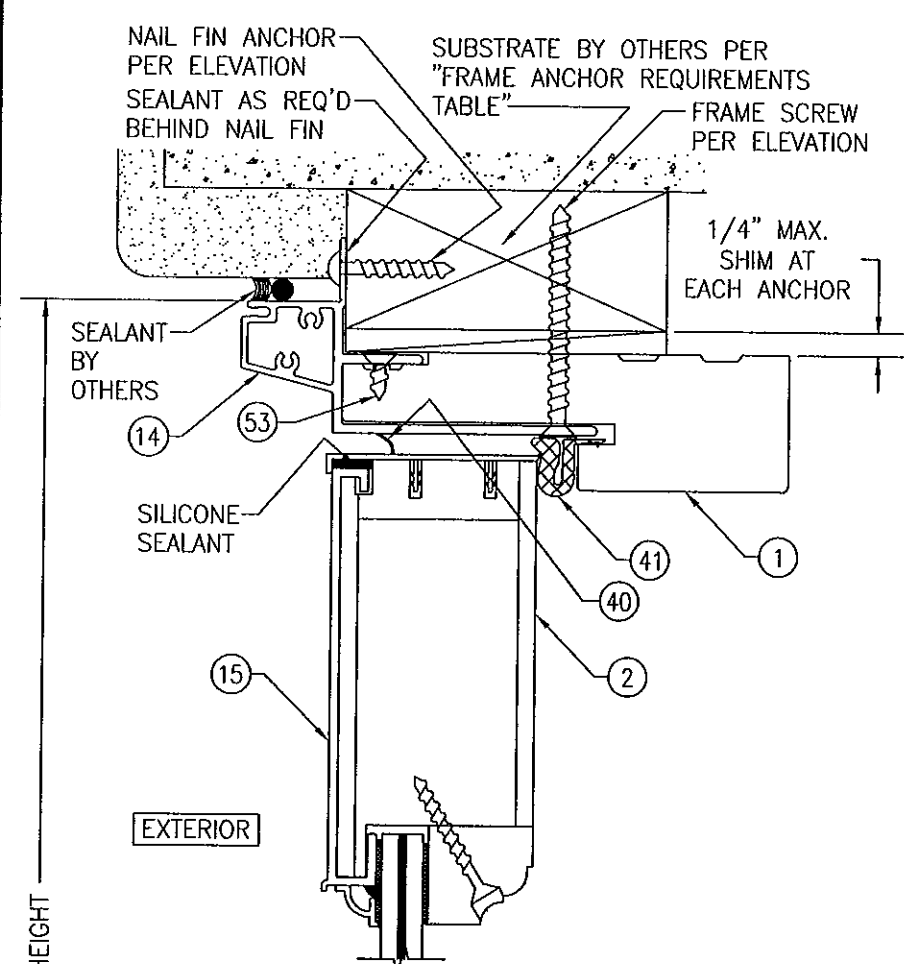
**MULLION ALLOWABLE
DESIGN PRESSURE
(SINGLE DOORS WITH TRANSOM)**

ALLOWABLE PRESSURE SHALL BE
GOVERNED BY THE ALLOWABLE
PRESSURE ON THE SINGLE DOOR.
SEE SHEET 1 FOR ALLOWABLE
PRESSURE ON SINGLE DOORS.

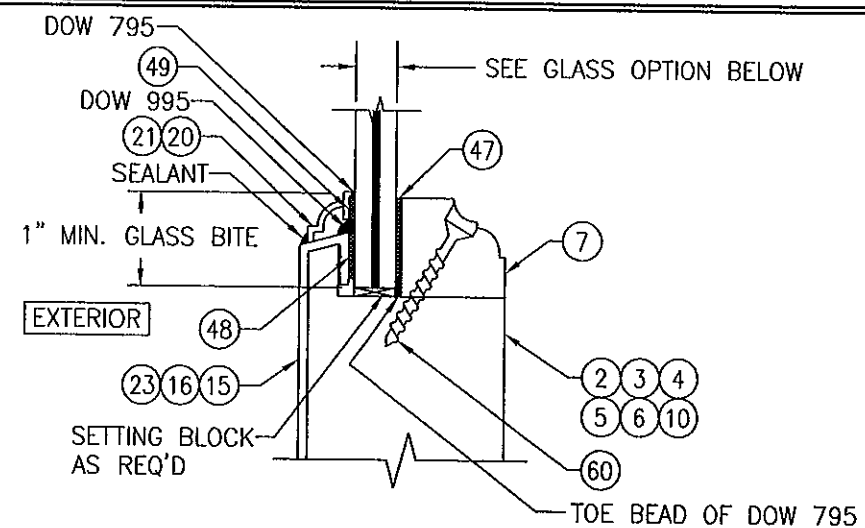
PRODUCT REVISED
in compliance with the Florida
Building Code
Acceptance No. 12-0410-11
Expiration Date 4/16/12
Ismael L. Llanusa
Miami, Dade Product Council



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/09/12	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: ULTIMATE DOOR OF PALM BEACH, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CERTIFICATION AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1748	
SHEET NO. 11 OF 17		REV.	

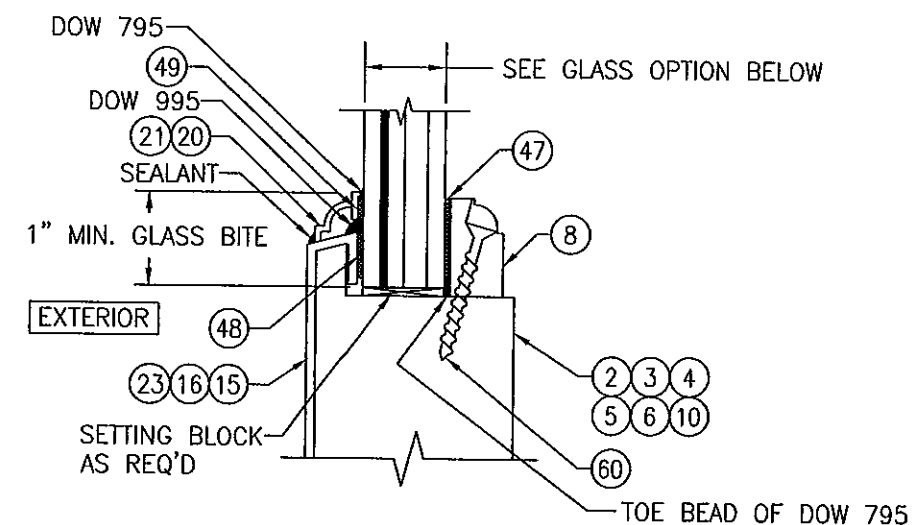


SECTION A2
SCALE: 1/2 FULL
(FRAME SCREW MOUNT)
(HEAD ONLY SHOWN. FOR SILL SECTION & DETAIL NOT SHOWN, SEE SECTION A1/12)



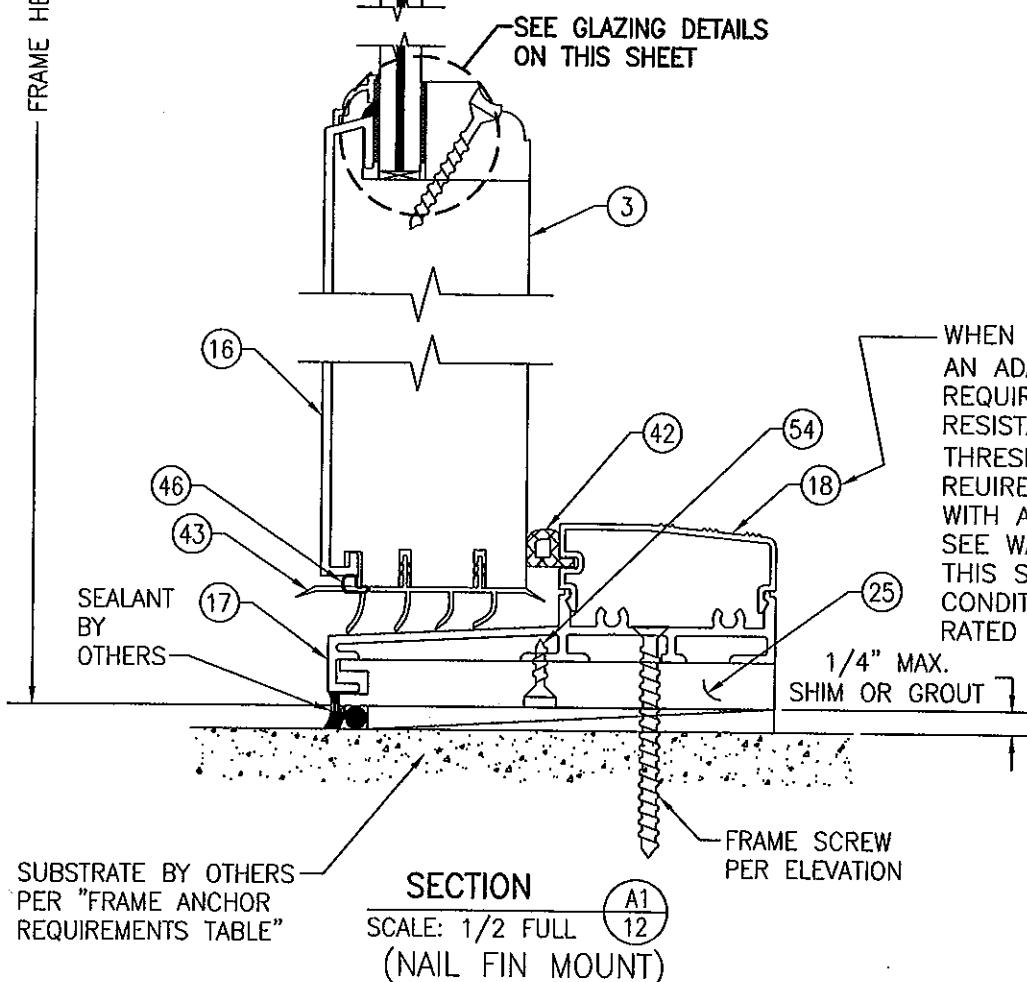
TYPICAL MONOLITHIC GLASS GLAZING DETAIL

OPTION 1: 7/16" LAMINATED GLASS (3/16" AN./0.090 DUPONT SG/3/16" AN.)



TYPICAL I.G. GLAZING DETAIL

OPTION 1: 7/8" I.G. LAMINATED GLASS
(3/16" AN./0.090 DUPONT SG/3/16" AN.
EXTERIOR/1/4" AIR SPACE/3/16" TEMP. INTERIOR)

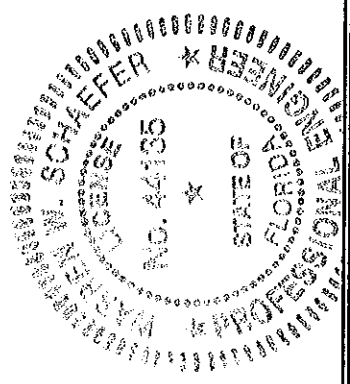


SECTION A1
SCALE: 1/2 FULL
(NAIL FIN MOUNT)

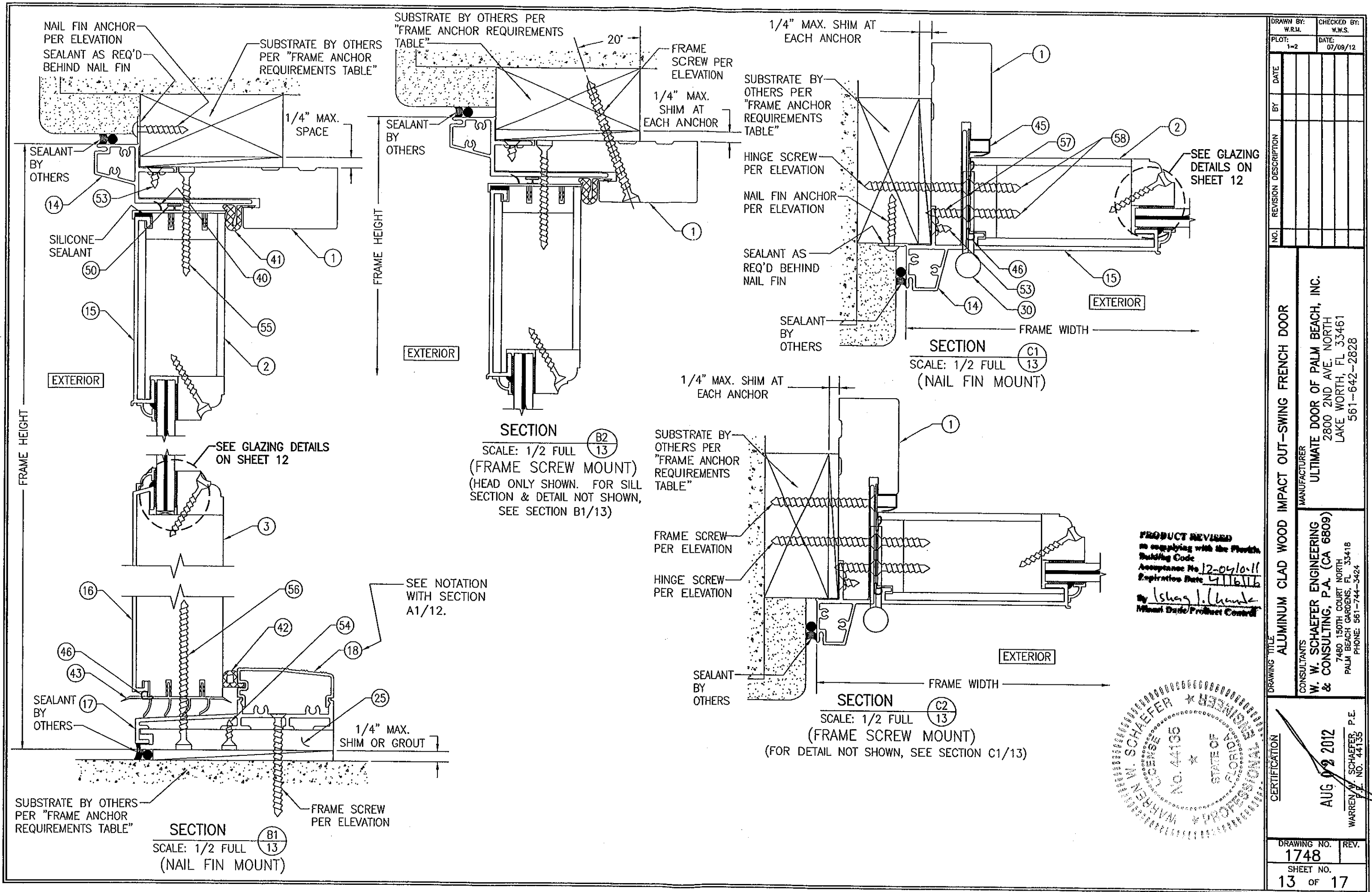
WHEN DOOR IS TO BE USED AS AN ADA DOOR AND/OR IT IS NOT REQUIRED TO HAVE A WATER RESISTANCE RATING, THE THRESHOLD CAP #18 IS NOT REQUIRED AND MAY BE REPLACED WITH ANY TYPE OF LOWER CAP. SEE WATER RESISTANCE NOTE ON THIS SHEET FOR APPLICABLE CONDITIONS FOR NON-WATER RATED DOORS.

WATER RESISTANCE NOTE: THESE DOORS ARE APPROVED FOR WATER INFILTRATION RESISTANCE ONLY WHEN THRESHOLD CAP PART #18 IS USED. WHEN PART #18 IS NOT USED, THESE DOORS SHALL NOT BE INSTALLED WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. WHEN NOT RATED FOR WATER INFILTRATION RESISTANCE, UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC SECTION 2411.3.

PRODUCT REVIEWED
in compliance with the Florida
Building Code
Acceptance No. 12-0410.11
Expiration Date 4/16/11
By: [Signature]
Miami Dade Product Control

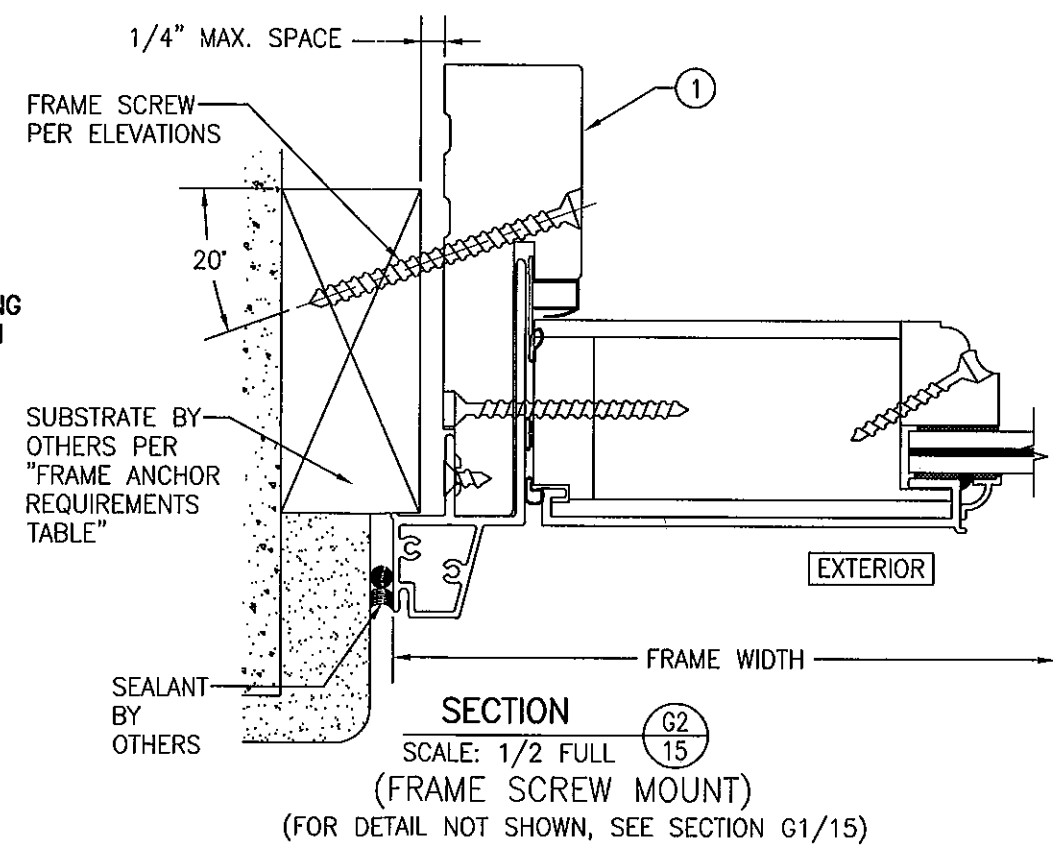
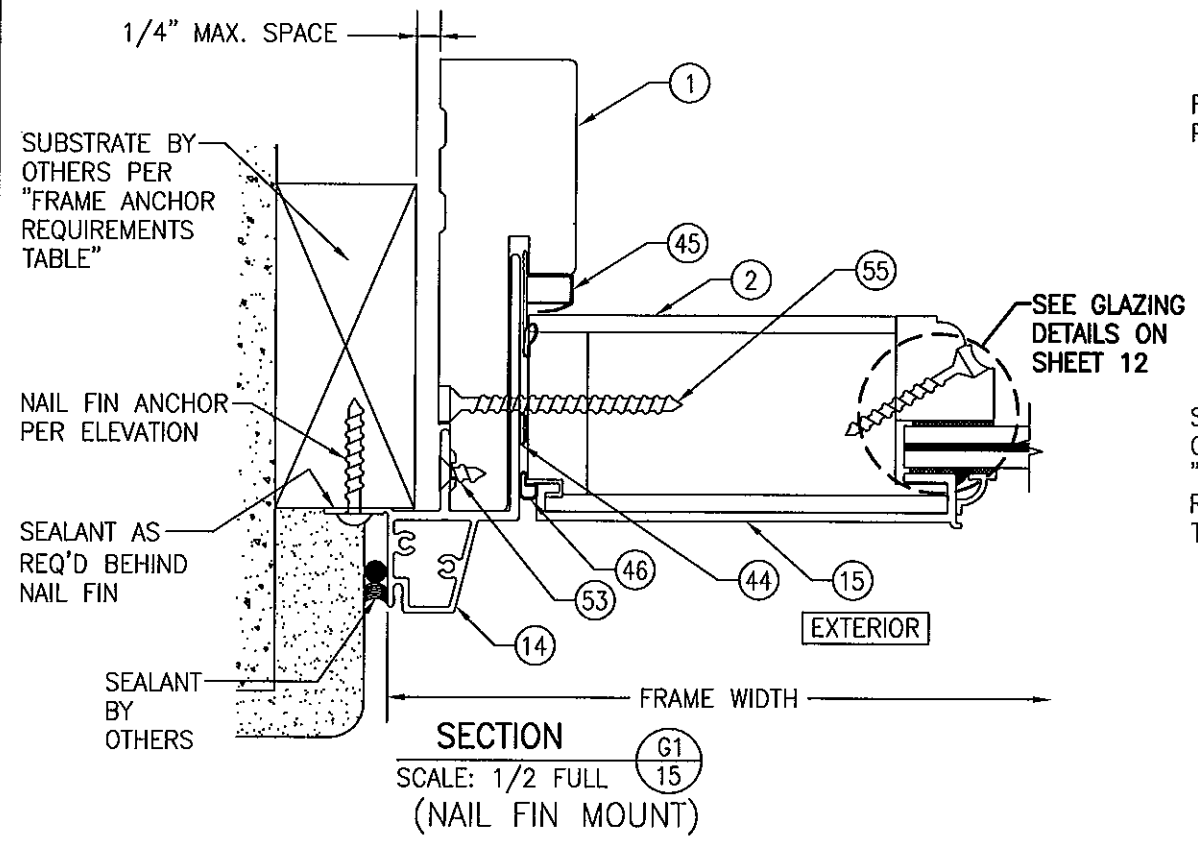
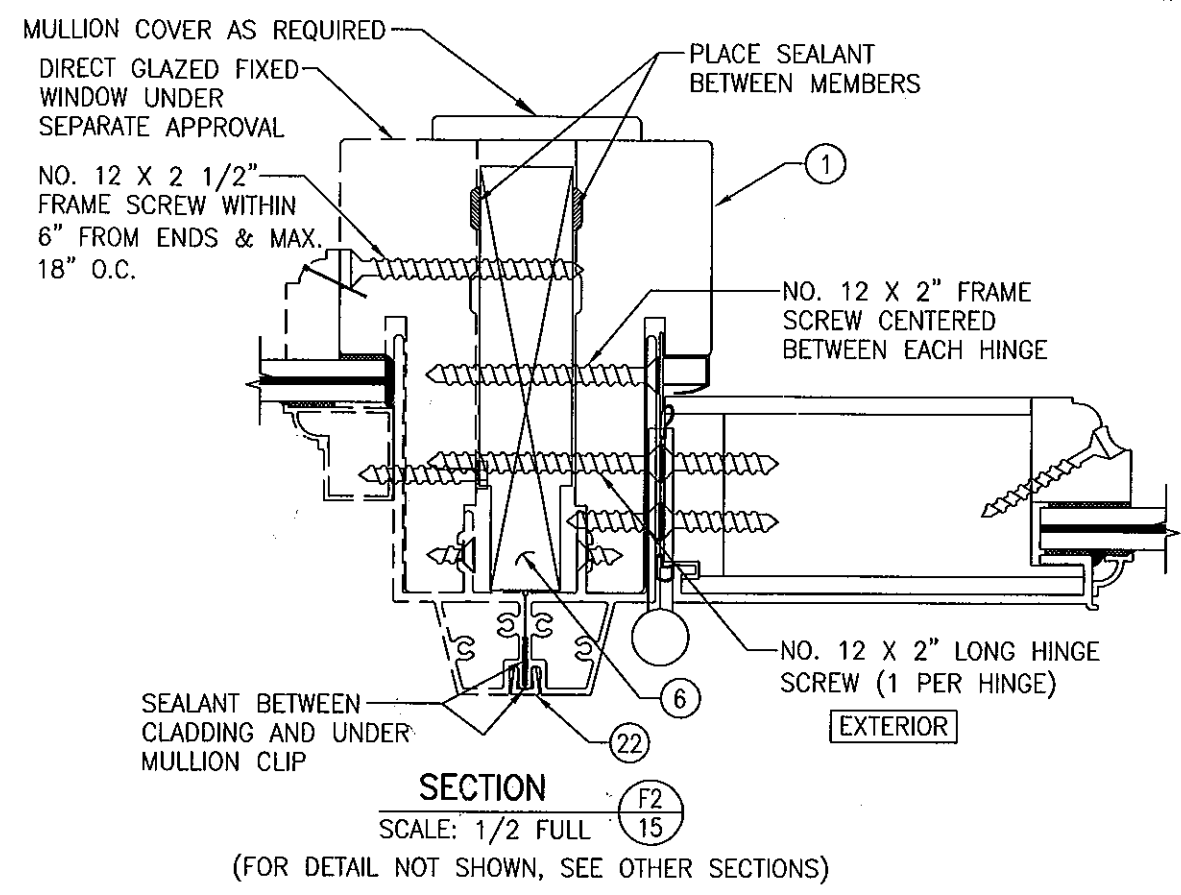
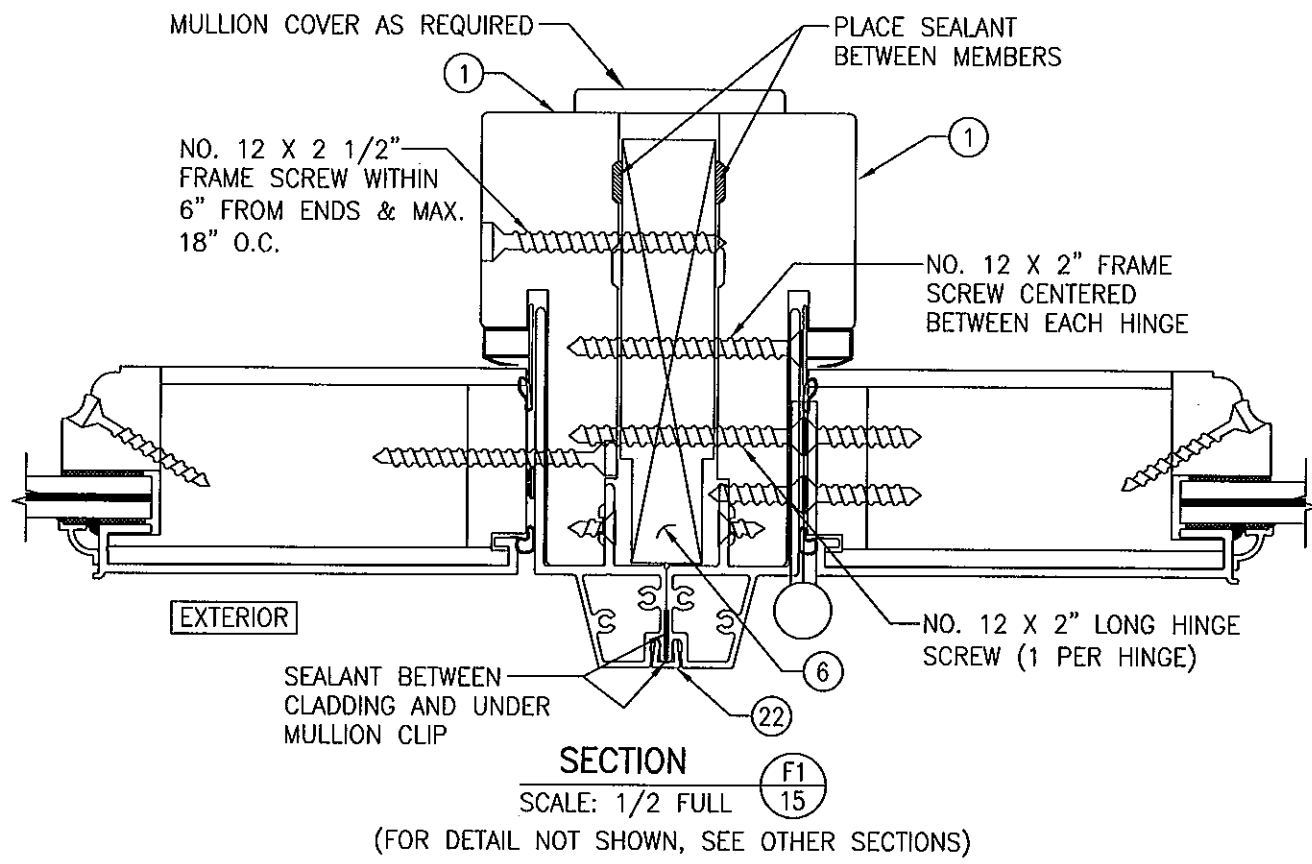


DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 07/09/12
DATE	BY
REVISION DESCRIPTION	NO.
ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR	
MANUFACTURER	ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
CERTIFICATION	AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	REV.
1748	
SHEET NO.	12 OF 17

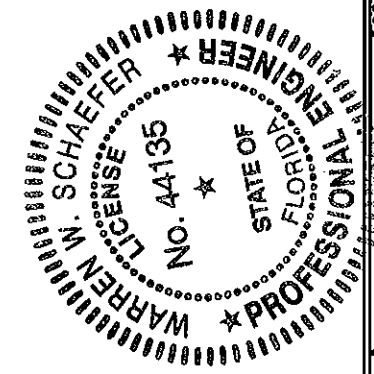


DRAWN BY: W.R.M.		CHECKED BY: W.S.	
PLOT: 1=2		DATE: 07/09/12	
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DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR	
CONSULTANTS:	MANUFACTURER:
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	ULTIMATE DOOR OF PALM BEACH, INC.
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828
CERTIFICATION	
AUG 02 2012	
WARREN W. SCHAEFER, P.E. P.E. NO. 44136	
DRAWING NO. 1748	REV.
SHEET NO. 13	OF 17



PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-0410-11
 Expiration Date 4/16/16
 By Isang J. Han
 Visual Data Product Control

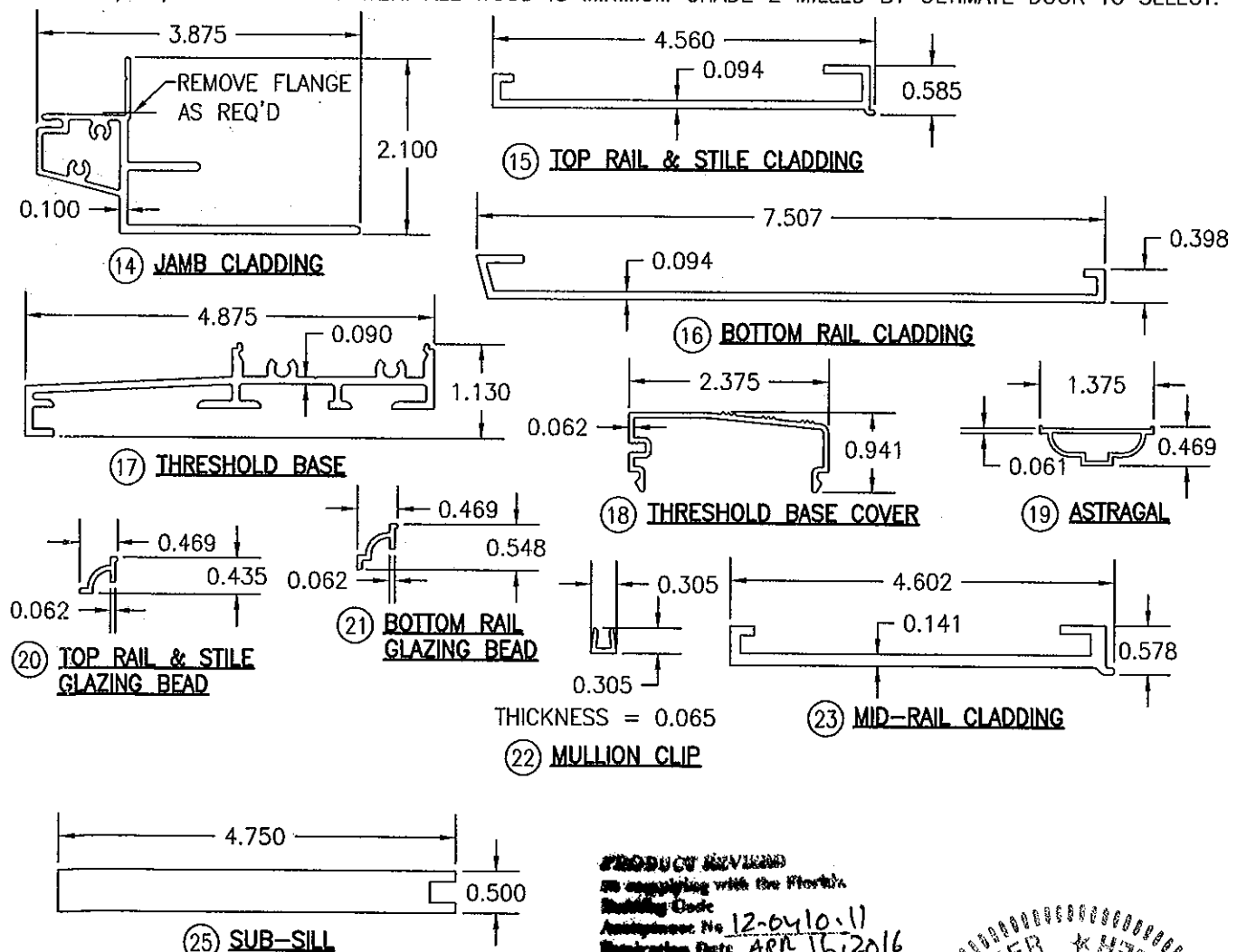


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 07/09/12	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
MANUFACTURER: ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION AUG 08 2012		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1748		REV.	
SHEET NO. 15		OF 17	

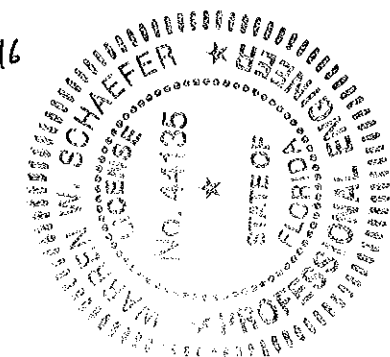
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	JAMB	WOOD
2	HEAD RAIL & HINGE, INACTIVE & FIXED PANEL STILES	WOOD
3	BOTTOM RAIL	WOOD
4	HINGE & FIXED PANEL STILE	WOOD
5	ASTRAGAL	WOOD
6	MULLION	WOOD
7	GLAZING BEAD (MONOLITHIC GLASS)	WOOD
8	GLAZING BEAD (INSULATED GLASS)	WOOD
9	GLAZING BEAD (RAISED PANEL)	WOOD
10	MID-RAIL	WOOD
14	JAMB CLADDING	6063-T5 ALUMINUM
15	TOP RAIL & STILE CLADDING	6063-T5 ALUMINUM
16	BOTTOM RAIL CLADDING	6063-T5 ALUMINUM
17	THRESHOLD BASE	6063-T5 ALUMINUM
18	THRESHOLD BASE COVER	6063-T5 ALUMINUM
19	ASTRAGAL	6063-T5 ALUMINUM
20	TOP RAIL & STILE GLAZING BEAD	6063-T4 ALUMINUM
21	BOTTOM RAIL GLAZING BEAD	6063-T5 ALUMINUM
22	MULLION CLIP	6063-T5 ALUMINUM
23	MID-RAIL CLADDING	6063-T5 ALUMINUM
25	SUB-SILL	PVC
HARDWARE		
30	4 1/2" X 4 1/2" BUTT HINGE	HAGER 1191 BRASS WITH S.S. BALL BEARINGS
31	3-POINT LOCK SYSTEM (SHOOT BOLTS & DEADBOLT)	ULTIMATE DOOR UD120A
32	2-POINT LOCK SYSTEM (SHOOT BOLTS)	ULTIMATE DOOR UD120B
33	3-POINT LOCK SYSTEM (SHOOT BOLTS & DEADBOLT)	HARDKING SS963 MODIFIED
34	2-POINT LOCK SYSTEM (SHOOT BOLTS)	HARDKING SS963 MODIFIED
35	DEADBOLT	SCHLAGE B100 OR EQUIVALENT
36	FLUSH BOLT	HAGER BRASS 282D
37	HANDLE	AS REQUIRED TO OPERATE LOCK
38	4-POINT LOCK SYSTEM (TONGUE BOLTS & DEADBOLT)	SCHLEGEL FFNS-3300
SEALS & SEALANTS		
40	TOP SWEEP	PREFERRED PLASTICS EPDM UTIL 9483360092
41	KERF WEATHERSTRIP	SCHLEGEL QLON QEBD 875
42	THRESHOLD CAP WEATHERSTRIP	PREFERRED PLASTICS EPDM GTCWL 9421815012
43	BOTTOM SWEEP	PREFERRED PLASTICS EPDM UTIL 9411357562
44	FIXED STILE BULB WEATHERSTRIP	PEMCO SILICONE S88W510
45	HINGE WEATHERSTRIP	PREFERRED PLASTICS SILICONE UTIL 9430965012
46	PANEL BULB WEATHERSTRIP	SCHLEGEL THERMOPLASTIC AP-425
47	GLAZING TAPE 1/16" X 7/8"	SAINT GOBIAN V2862
48	GLAZING TAPE 1/16" X 1/2"	SAINT GOBIAN V2862
49	GLAZING TAPE 1/16" X 1/4"	SAINT GOBIAN V2862
50	FIXED PANEL TOP WEATHERSTRIP	PEMCO VINYL V41GR
51	KERF WEATHERSTRIP	SCHLEGEL QLON QDS 650

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
FASTENERS		
53	NO. 6 X 3/4" SMS	3" FROM CORNERS & 12" MAX. O.C.
54	NO. 6 X 3/4" SMS	2" FROM ENDS & 16" MAX. O.C.
55	NO. 8 X 2 1/2" WOOD SCREW	3" FROM CORNERS & 9" MAX. O.C.
56	NO. 10 X 3 1/2" WOOD SCREW	3" FROM CORNERS & 9" MAX. O.C.
57	NO. 12 X 1" S.S. SMS SCREW	3 PER HINGE
58	NO. 12 X 1 1/4" S.S. SMS SCREW	4 PER HINGE
59	NO. 7 X 2 1/4 WOOD SCREW	1 1/2" FROM ENDS & 11" MAX. O.C.
60	NO. 6 X 1 5/8" WOOD SCREW	2" FROM CORNERS & 9" MAX. O.C.
61	3/8" X 6" GALV. LAG BOLT WITH 1/4" WASHER	2 PER FIXED PANEL DOORS
62	NO. 12 X 2" S.S. SMS SCREW	1 PER HINGE

NOTE: WOOD USED IN TESTING WAS PONDEROSA PINE WITH A SPECIFIC GRAVITY OF G = 0.43 AND A MODULUS OF ELASTICITY OF E = 1,200,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY ULTIMATE DOOR TO SELECT.



PRODUCT REVIEWED
as complying with the Florida
Building Code
Amendment No. 12-04/10-11
Expiration Date: APR 16, 2016
By: [Signature]
Ultimate Door Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 07/09/12	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR MANUFACTURER: ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1748 SHEET NO. 17 OF 17	